

Scout Report sent out



Noted in the NID File



Location map pinned



Approval or Disapproval Letter



Date Completed, P. & A. or
operations suspended

2-11-59

Pin changed on location map



Affidavit and Record of A & P



Water Shut-Off Test



Gas-Oil Ratio Test



Well Log Filed



Converted to water injection; started injecting in April, 1962

FILE NOTATIONS

Entered in NID File ✓

Checked by Chief

Entered on S.R. Sheet ✓

Copy NID to Field Office

Location Map Pinned ✓

Approval Letter ✓

Card Indexed ✓

Disapproval Letter

IWR for State or Fee Land

COMPLETION DATA:

Date Well Completed 2-11-59

Location Inspected

ON ✓ WW TA

Bond released

GN OS PA

State of Fee Land

LOGS FILED

Driller's Log 2-2-59

Electric Logs (No. 1 4)

 E-I GR GR-N ✓ Micro ✓

Lit Mi-L Sonic ✓ Others

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal
14-20-603-355
Lease No. _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Cortez, Colorado November 28, 1958

Navajo "A" Well No. 12 is located 660 ft. from N line and 1880 ft. from W line of sec. 16
NE, NW, Sec. 16 41 S 24 E SLM
($\frac{1}{4}$ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
White Mesa San Juan County Utah
(Field) (County or Subdivision) (State or Territory)

ungraded ground

The elevation of the ~~derrick floor~~ above sea level is 4644-7 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drill 17-1/2" hole to approximately 160', set 160' of 13-3/8" conductor pipe and cement to surface. Drill 11" hole to approximately 1600', set 8-5/8" casing and cement to surface. Drill 7-7/8" hole to total depth of 5750', run 5-1/2" casing and cement with approximately 250 sx cement. Complete in Paradox Formation.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Company

Address P. O. Box 548

Cortez, Colorado

By C. M. Boles
Title District Superintendent

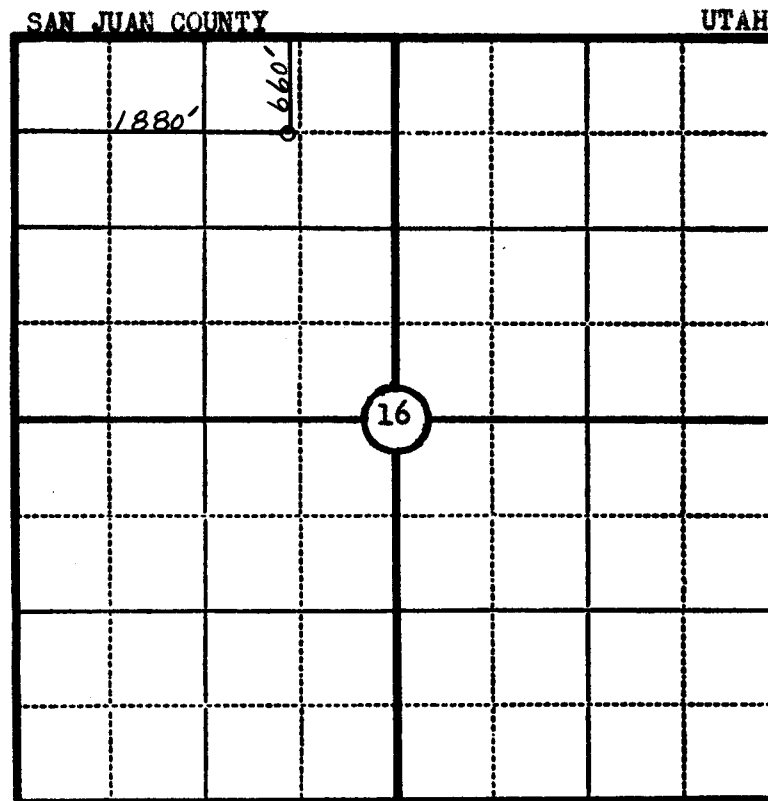
Company..... PHILLIPS PETROLEUM COMPANY

Lease..... NAVAJO Well No. A-12

Sec..... 16, T..... 41S., R. 24E, S.L.M.

Location..... 660' FROM THE NORTH LINE AND 1880'
FROM THE WEST LINE

Elevation..... 4644.7 Ungraded Ground



Scale—4 inches equal 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:

James P. Leese
Registered Land Surveyor.
James P. Leese
Utah Reg. No. 1472

Surveyed 25 November , 19.58

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

December 1, 1958

Phillips Petroleum Company
P. O. Box 548
Cortez, Colorado

Attention: C. M. Boles, District Superintendent

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo A-12, which is to be located 660 feet from the north line and 1880 feet from the west line of Section 16, Township 41 South, Range 24 East, SLEM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

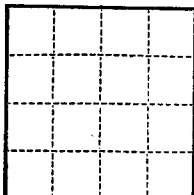
Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT
SECRETARY

CBF:co

cc: Phil McGrath
USGS, Farmington,
New Mexico



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee Tribal

Lease No. 14-20-603-335

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Cortez, Colorado Dec. 15, 1958

Navajo "A"
Well No. 12 is located 660 ft. from N line and 1800 ft. from E line of sec. 16
NE NW Sec. 16

15 (1/4 Sec. and Sec. No.) 24E (Twp.) 24E (Range) S. 1. N. 1. E. (Meridian)

White Mesa (Field) San Juan County (County or Subdivision) Utah (State or Territory)

The elevation of the ungraded ground above sea level is 6447 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 11:30 PM 12/5/58. Drilled 11" hole to 174'. Reamed to 17-1/4" hole to 174'. Set and cemented 13-3/8" OD 27.1# casing at 173.03' RKB w/175 sz reg. cement, 2% calcium chloride. Pumped plug to 143' at 10:30 AM 12/6/58. Cement circulated. Waited on cement 24 hours, tested casing with 200 lbs for 30 minutes. Tested o.k.

Drilled 11" hole to 1464'. Set and cemented 8-5/8" OD 24# casing at 1463' RKB with 330 sacks neat cement, 126 sacks Diesel "D", 165# Floccs, 660# tuff plug, followed with 125 sacks neat regular cement on bottom. Pumped plug to 925'. Hole bridged and pressure increased to 1800#. Stopped displacement with 538' cement left in pipe. Cement circulated and dropped back. Cemented to surface down annulus with 35 sacks cement, 2% calcium chloride. Job complete 12:00 noon 12/8/58. Waited on cement 24 hrs, tested casing with 250# for 30 minutes. Tested o.k.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

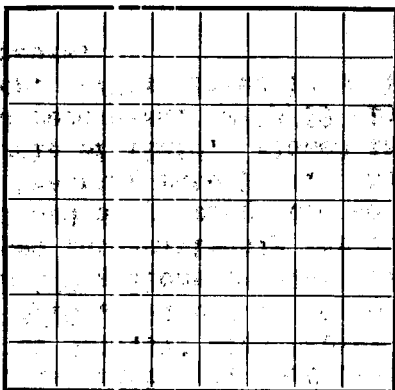
Company Phillips Petroleum Company

Address Box 548

Cortez, Colorado

By C. M. Boles

Title District Superintendent

U. S. LAND OFFICE NavajoSERIAL NUMBER 14-20-603-355LEASE OR PERMIT TO PROSPECT Initial

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELLCompany Phillips Petroleum Company Address P. O. Box 548, Cortez, ColoradoLessor or Tract Navajo #1 Field White Mesa State UtahWell No. 12 Sec. 16 T. 42N R. 24E Meridian 14N County San JuanLocation 460 ft. S. of 1 Line and 1800 ft. E. of 1 Line of Sec. 16 Elevation 4620
(Derrick floor relative to 1600 ft.)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed [Signature]Date February 26, 1959Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling December 5, 19 58 Finished drilling December 30, 19 58**OIL OR GAS SANDS OR ZONES**

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Water shows in all sands from surface to 1465 and from 2596 to 2762 ft.

No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	
13-3/8"	27.14	SMSJ	FWCO	161	Larkin		5599	5607	Oil Prod.
8-5/8"	24.7	8 x 1	U-55	1459	Larkin		5596	5598	" "
5-1/2"	20.4	8 x 1	U-55	5071	Reuter		5595	5601	" "
							5513	5628	" "
							5507	5511	" "
							5494	5502	" "

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	17.5	175	Circ.		
8-5/8"	1461	800 cu. ft.	Circ. (35 ac cement added down annulus)		
5-1/2"	5544	550 cu. ft.	C-J		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

13-3/8	173	173	Circ.
8-5/8	1463	800 cu. ft.	Circ. (35 ex cement added down annulus)
5-1/2	3644	350 cu. ft.	8-1

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 3647 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

February 26, 1959 Put to producing February 11 (1959) 19-59-
 The production for the first 24 hours was 752 barrels of fluid of which 82% was oil; _____%
 emulsion; 18% water; and _____% sediment. Gravity, °Bé. 42

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 125-120

EMPLOYEES

Moran Bros., Inc., Driller _____, Driller
 _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1465	2332	867	Chinle
2332	2403	71	Shinarump
2403	2522	119	Moenkopi
2522	2596	74	Cutler - Hoskinini equivalent
2596	2762	166	Cutler - De Chelly Member
2762	4524	1762	Cutler - Organ Rock
4524	5647	1123	Honaker Trail
5647	5647	169	Paradox
5647	5622	- 25	PSTD - Top cement.
FROM—	TO—	TOTAL FEET	FORMATION

RECORD AND VALUABLES

RECORDING VALUABLES

HISTORY OF OIL OR GAS WELL

16-38064-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded 11:30 PM 12/5/58. Drilled 11" hole to 174'. Reamed 17-1/4" hole to 174'. Set & cemented 17-3/8" OD 27.1' casing at 173.03' RKB with 175 sacks regular cement, 2% calcium chloride. Pumped plug to 143' at 10:30 AM 12/6/58. Cement circulated. Waited on cement 24 hours, tested casing with 200# for 30 minutes. Tested o.k.

Drilled 11" hole to 1464'. Set & cemented 8-5/8" OD 24' casing at 1463' RKB with 330 sacks regular cement, 126 sacks Diacel "D", 165# Floccol, 660# luff plug, followed with 125 sacks regular cement on bottom. Pumped plug to 923'. Hole bridged and pressure increased to 1800#. Stopped displacement with 538' cement left in pipe. Cement circulated and dropped back. Cemented to surface down annulus with 35 sacks cement, 2% calcium chloride. Job complete 12 noon 12/8/58. WOC 24 hours. Tested casing with 750# for 30 minutes. Tested ok

Drilled 7-7/8" hole to 5420'. Cored from 5420' to 5470', 5470' to 5520, 5520' to 5570 & 5570' to 5620. Reamed core hole. Ran DST #1 w/ double packer and tested from 5420' to 5470'. Air at once - fair to good blow 15 minutes. Good blow of air remainder of test. Total open 2 hours. Initial flow pressure 60#, ISIP 95#, 30 minutes. FFP 95#, FSP 785#, 30 minute Hydrostatic pressure 311#. Recovered 180# heavy oil and gas oil out mud - not enough to catch sample. Oil dark green.

Drilled 7-7/8" hole to 5647'. Ran Schlumberger Gamma Ray Neutron Sonic & Micro Logs. Conditioned hole and ran 149 ft 5-1/2" OD 24' J-55 8 rd STC casing and cemented at 5643.57' with 132 sacks cement, 100 sacks Diacel "D", 496# calcium chloride. Pumped plug to 5606.59' at 8:50 PM 12/31/58. Ran Rotating Type Scratchers as follows: 5400-95, 5550-51, 5606-34. Larkin centralizers at 5123, 5233, 5332, 5415, 5496, 5582, 5637. (Reactor Guide Shoe) Reached TD at 6:15 PM 12/30/58. Released rig at 11 AM 1/1/59. WOC 24 hrs. Tested casing with 700# for 30 minutes - tested okay.

Moved in Givens & Sons Well Service. Ran tubing with bit and drilled float collar at 5606' & cement to 5614. Corrected FBTD from 5614 to 5622 w/tubing strapping and Schlumberger measure. Ran Schlumberger Gamma Ray Neutron Log. Perforated casing with 4 bullet shots per foot from 5599-5607' & 5614-5622'. Ran 2 1/2" tubing (HLL) and set at 5617.17' with Packer at 5425.71. Swab tested 22-1/2' HO to test tank in 4 hours. G/O 5/10%. Flowed 20 HO to test tank in 1 hour. Western acidized Paradox perforations with 420 gallons regular acid. Pumped in 10 bbls acid followed with 23 HO. TP 1000#. Pumped intermittently for 30 minutes. Acid hit formation, pressure dropped to 100#. Finished displacing acid to formation with 1000. Maximum TP 1000#, minimum 100#. Average treating rate 3BPM. Shut in - well on vacuum. Swabbed 6 hours - recovered 136 barrels of fluid. Flowed last 1 hour - 33 barrels fluid, 8/15/58 to 60% salt water - load recovered. 2/23/59 Flowed and swabbed 10 hours 220 barrels fluid, 60% salt water. 2/24/59 Flowed 10 HO 1st hour - swabbed and flowed total of 228 barrels fluid in 10 hours.

(Continued on attached sheet)

REVIEW NUMBER

U. S. GOVERNMENT PRINTING OFFICE

WASH DC 20540-215-31-00
GPO: 1959 O - 35-15322-4

(Continued)

2/25/59 Swabbed and flowed 1-1/2 hours, recovered 23 BO. Perforated Paradox Lime with 4 Schlumberger jet shots per foot (120 holes) from 5546-50, 5520-34, 5513-28, 5507-11, 5494-5502 EL and RL measure. Pulled tubing and set Baker Model 415 D Production Packer on wire line at 5565' (Set Latch Type DR Packer Plug in packer). Ran 173 jts 2-1/2" EUE tubing and set at 5526.76', Baker EGJ Packer at 5367.11'. Western spotted 32 barrels 15% regular acid on formation. Set Packer and pressured total of 2000 gallons regular acid into formation. Flushed with 33 barrels oil. Maximum pressure 3900#, broke to 1800#. Average treating rate 3.2 HPM, average flush rate 2BPM. Swabbed 6 hours - recovered 130 barrels fluid. Completed acidizing at 12:00 noon 1/27/59.

1/28/59: Flowed 2 hours and died. Flowed and swabbed 8 hours - recovering 266 barrels of fluid, GO 60% salt water.

1/29/59: Flowed and swabbed 5-1/2 hours - recovered 178 barrels fluid - 60% salt water. Killed well. Pulled tubing with Hookwall Packer. Re-ran tubing and set Hookwall packer at 5559' below upper perforations and above Baker 415D Packer with latch type DR plug at 5565'. Pressured down tubing with 1000# and held o.k. Swabbed tubing to 1600'. Well started flowing through annulus.

2/3/59: Swabbed and flowed 205 BO, 100 barrels water in 11 hours. Pulled tubing and fished DR plug from Baker Packer. Ran tubing and set at 5571.24. Ran rods and placed on pump. (2" tail pipe - 21 feet - through Baker 415D Packer at 5565' with perforations above and below packer)

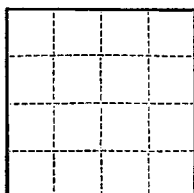
(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal

Lease No. 14-20-603-355



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Cortez, Colorado February 25, 19 59

Navajo "A"

Well No. 12 is located 660 ft. from N line and 1880 ft. from E line of sec. 16

NE NW Sec. 16

(1/4 Sec. and Sec. No.)

41S

(Twp.)

24E

(Range)

SLM

(Meridian)

White Mesa

(Field)

San Juan County

(County or Subdivision)

Utah

(State or Territory)

ungraded ground

The elevation of the ~~surface~~ above sea level is 4644.7 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drilled 7-7/8" hole to 5420'. Cored from 5420' to 5470', 5470 to 5520, 5520 to 5570 and 5570 to 5620. Reamed core hole. Ran DST #1 w/double packer and tested from 5422 to 5470. Air at once - fair to good blow 15 minutes. Good blow of air remainder of test. Tool open 2 hours. Initial flow pressure 60#, ISIP 95#, - 30 minutes. FFP 95#, FSP 785# 30 minutes Hydrostatic pressure 3115. Recovered 180' heavy oil and gas oil cut mud -- not enough oil to catch sample. Oil dark green.

Drilled 7-7/8" hole to 5647'. Ran Schlumberger Gamma Ray Neutron Sonic and Micro Logs. Conditioned hole and ran 169 jts 5-1/2" OD 14# J-55 8 rd ST&C casing and cemented at 5643.57' with 132 sacks cement, 100 sx Diacel "D", 496# Calcium Chloride. Pumped plug to 5606.55' at 8:50 PM 12/31/58. R&W Rotating Type Scratchers as follows: 5480-95, 5550-65, 5606-36. Larkin centralisers at 5123, 5233, 5332, 5413, 5496, 5582, 5637. (Sector guide shoe). Reached TD at 6:15 PM 12/30/58. (Continued on back)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Company

Address Box 548

Cortez, Colorado

By C. M. Boles
Title District Superintendent

(Continued)

Released rig at 11:00 A.M. 1/1/59. Waited on cement 24 hours.
Tested casing with 700# for 30 minutes - tested okay.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Allottee Tribal
Lease No. 14-20-603-355

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		<u>Conversion of well to water injection</u>	<u>X</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Ratherford Unit

May 2, 1962

Well No. 16W21 is located 660 ft. from N line and 1480 ft. from EX line of sec. 16
(Formerly Phillips' Navajo A-12, then Ratherford Unit 16-21, See Note)

NE NW Sec. 16 41S 24E 91W
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
White Mesa San Juan County Utah
(Field) (County or Subdivision) (State or Territory)

ungraded ground

The elevation of the derrick ~~foot~~ above sea level is 4644.7 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

- 1/18/62 Moved in R&R Well Service Unit to kill well, pull rods and tubing, cement line tubing, rerun and convert to water injection. Previous Production 40 BO, 162 BW, GOR 2000.
1/19/62 Pulled tubing.
1/20 through 2/3/62 Idle.
2/3/62 Moved in R&R Well Service Unit and ran 2-1/2" EUE cement lined tubing with Baker BQJ Hookwall packer.
2/4 through 4/29/62 Waiting on completion of Ratherford Unit Waterflood Pump Station.
4/30/62 Started water injection into Paradox 2:45 PM 4/30/62. Injected 435 BW in 5 hrs. Tubing Pressure 775# to 0#.

NOTE: Well number changed from 16-21 to 16W21 to indicate change from oil well to Water Injection well.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

PHILLIPS PETROLEUM COMPANY

Company _____

Address P. O. Drawer 1150

Cortez, Colorado

By C. M. Bales

Title District Superintendent

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved/
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-355
2. NAME OF OPERATOR Phillips Petroleum Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR Drawer 1150, Cortez, Colorado		7. UNIT AGREEMENT NAME SW-I-4192
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FNL, 1330' FNL, Section 16 NE, NW, Sec. 16		8. FARM OR LEASE NAME Rutherford Unit
14. PERMIT NO.		9. WELL NO. 16471
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4644.7' ungraded ground		10. FIELD AND POOL, OR WILDCAT Greater Aneth
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 16-419-24E, SLEM
		12. COUNTY San Juan 13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

~~XXXX~~ OR ACIDIZE ☒

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Acidize Water Injection well with 1,000 gallons regular acid, 200 gallons Block,
and 2,000 gallons regular acid in attempt to increase Water Injection Rate.

Present Water Injection Rate: Injecting 746 BWPD at 300#.

18. I hereby certify that the foregoing is true and correct

SIGNED C. M. Bolan
C. M. Bolan

TITLE Area Superintendent

DATE 10-9-64

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN PLATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-355

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

SW-1-1192
Rutherford Unit

8. FARM OR LEASE NAME

Rutherford Unit

9. WELL NO.

1621

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

16-41S-24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1.

OIL
WELL ☐

GAS
WELL ☐

OTHER

Water Injection

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

P. O. Drawer 1150, Cortez, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)
At surface

660' FNL, 1880' FNL, Section 16

NE NW Sec. 16

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4644.7' ungraded ground

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

Cancel application to acidize

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The acidization of the subject well as requested on Form 9-331 dated October 9, 1964 and approved by your office October 12, 1964 will not be performed and our request should therefore be cancelled.

18. I hereby certify that the foregoing is true and correct

SIGNED

C. H. Dole

TITLE

Area Superintendent

DATE

10-19-64

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TWO
(Other instruct
verse side)DATE*
on re-Form approved.
Budget Bureau No. 42-R1424.5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-3556. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo7. UNIT AGREEMENT NAME
SW-1-41928. FARM OR LEASE NAME
Rutherford Unit9. WELL NO.
1642110. FIELD AND POOL, OR WILDCAT
Greater Aneth11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA
16-41S-24E, SIM1. OIL ☐ GAS ☐ OTHER ☐ Water Injection Well2. NAME OF OPERATOR
Phillips Petroleum Company3. ADDRESS OF OPERATOR
Drawer 1150, Cortez, Colorado 813214. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

NE NW Sec. 16 660' FNL, 1880' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4644.7' ungraded ground

12. COUNTY OR TERRITORY
San Juan13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☒SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On June 3, 1965, unseated packer, acidized down annulus with 1000 gallons Western Company 15% regular acid, hooked back up and resumed water injection down tubing.

Previous Injection rate into Paradox Formation, Desert Creek Zone of Greater Aneth Field:
249 BHPD at 470#.

Present Injection rate into Paradox Formation, Desert Creek Zone of Greater Aneth Field:
3600 BHPD on vacuum.

18. I hereby certify that the foregoing is true and correct

SIGNED

C. M. Boles

TITLE

District Superintendent

DATE

6-23-65

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THE STATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-B1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection Well		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-358
2. NAME OF OPERATOR Phillips Petroleum Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR Box 1150, Cortez, Colorado 81321		7. UNIT AGREEMENT NAME SM-1-4192
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE 1/4 Sec. 16 660' FWL; 1880' FWL		8. FARM OR LEASE NAME Hatherford Unit
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4644.7' ungraded ground	
9. WELL NO. 10421		10. FIELD AND POOL, OR WILDCAT Greater Aneth
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 16-435-24E S18N		12. COUNTY OR TERRITORY San Juan
13. STATE Utah		

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Acidize water injection well with 4000 gallons 15% regular acid and return to injection status.

Present Injection Rate: Averaged 1060 BPD at 1594# during November 1968.

18. I hereby certify that the foregoing is true and correct

SIGNED C. E. Boles TITLE District Superintendent DATE 12-19-68

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Orig & 2 cc: USGS, Farmington, NM
2 cc: Utah O&GCC, Salt Lake
1 cc: B'ville
1 cc: Denver
1 cc: File

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN THE
(Other instructions
reverse side)TE*
re-Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-355

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

SW-I-4192

8. FARM OR LEASE NAME

Rutherford Unit

9. WELL NO.

16W21

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

16-413-24E S1BM

12. COUNTY OR DISTRICT 13. STATE

San Juan

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Water Injection Well
2. NAME OF OPERATOR
Phillips Petroleum Co.
3. ADDRESS OF OPERATOR
Box 1150, Cortez, Colorado 81321
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
NE NW Sec. 16 660' FNL; 1880' FWL
14. PERMIT NO.
15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4644.7' ungraded ground

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☒
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

☐
☐
☐
☐
☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On January 17, 1969 unseated packer so could acidize down annulus (well has cement lined tubing). On 1-21-69 acidized Desert Creek Zone I perforations 5494-5502, 5507-11, 5520-34, 5546-5550' and Zone II perforations 5599-5607' with 4000 gallons 15% acid in one stage. Treated down annulus. Hooked back up and resumed water injection.

Previous Injection Rate: 989 BWPD at 1730#.

Present Injection Rate: 3456 BWPD on vacuum.

18. I hereby certify that the foregoing is true and correct

SIGNED

C. M. Boles

TITLE

District Superintendent

DATE

2-13-69

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

Orig. & 2 cc: UICG, Washington, DC
2 cc: Utah OGC, Salt Lake City
1 cc: B'ville
1 cc: Denver
1 cc: Superior Oil Co., Cortez, Colo
1 cc: B'ville

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

11-27-602-258
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

11-1-1192

8. FARM OR LEASE NAME

Rutherford Unit

9. WELL NO.

16421

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 16-113-24E

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

1.

OIL WELL ☐ GAS WELL ☐ OTHER

Water Injection Well

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

P. O. Box 2920, Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

660' FWL and 1880' FWL (NE NW)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4656' RCB

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SEE ATTACHED SHEET

18. I hereby certify that the foregoing is true and correct

SIGNED

P. C. Morgan
P. C. Morgan

TITLE

Area Superintendent

DATE

8/26/75

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

3-DEGS Farmington, NM

2-UTAH O&G CO Salt Lake City, UT

1-File

1-Superior Oil Co., Cortez, CO

*See Instructions on Reverse Side

REPORT INDIVIDUAL WELL ST.

Lease Ratherford Unit Well No. 16W21 Authorization No. Expense
Summary of Work Performed:

On 12/18/74, acidized with 2000 gals 15% acid.

AVERAGE DAILY PRODUCTION				
	Field and Formation	Oil	Gas	Water
Before Work	Greater Aneth-Paradox Desert Creek Zone I & II	Injected 1000 BWPD at 1650#.		
After Work	" " "	Injected 3308 BWPD at 1150#.		
Before Work				
After Work				
DATE	P.T.D.			

DAILY REPORT OF WORK PERFORMED

1975
Jan.
22

RATHERFORD UNIT NO. 16W21 PTD 5622. INITIAL REPORT TO ACIDIZE WELL AS FOLLOWS/ RD DOWELL 12/18/74 AND PRESS. CSG. TO 100 LB., PNP/D 2000 GAL. 15 PERCENT HCL ACID DN TRG. FLUSHED W/35 RW. IIR 1.2 BPM AT 2000 LB. PRESS BROKE TO 1000 LB. AT 2.5 BPM. W/1000 GAL. ACID IN FORMATION FIR 2.5 BPM AT 1600 LB. ISIP 1200 LB., 2 1/2 MIN. SIP 0 LB. STARTED WTR. INJ., TRG PLUGGED AFTER INJ/G 7 RW. PAN SLN, PLUG AT 1036 FT. BI AND RU P AND P WS UNIT TO PULL TRG. 12/21/74, PLD ADD LD TRG FOR INSPECTION 12/22/74 AND REL/D P AND P WS 12/22/74. INSPECTED TRG. BI RU P AND P 12/30/74, WIR W/TRG AND LOR-SFT PKR, SFT PKR AT 5439 FT. HOOKED UP WELL HEAD AND STARTED INJ/G WTR. REL/D P AND P WS 12/30/74. INJ. RATE BEFORE ACID JOB WAS 1000 BWPD AT 1650 LB, AFTER ACID JOB WAS 3308 BWPD AT 1150 LB. NO AFE ISSUED. LOCATION/ 660 FNL AND 1880 FNL, SEC. 16,41S-24E, SAN JUAN CO., UTAH. ELEV. 4660 KB. GREATER ANETH FIELD. PARADOX FORMATION, DESERT CREEK ZONE. PERFS AT 5494 TO 5607. FINAL REPORT..

1-Bville E&P
1-Denver E&P
1-R. N. Hughes
1-G. R. Hudson
1-File

August 26, 1975

Date Prepared

District Approval

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF
PHILLIPS PETROLEUM COMPANY

CAUSE NO. C-3(B)

ADDRESS P.O. BOX 2920
CASPER, WYOMING ZIP 82602
INDIVIDUAL PARTNERSHIP ☒ CORPORATION
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE 16W21 WELL
SEC. 16 TWP. 41S RANGE 24E
SAN JUAN COUNTY, UTAH

ENHANCED RECOVERY INJ. WELL ☒
DISPOSAL WELL ☐
LP GAS STORAGE ☐
EXISTING WELL (RULE I-4) ☒

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name Ratherford Unit	Well No. 16W21	Field Greater Aneth	County San Juan
Location of Enhanced Recovery Injection or Disposal Well 16W21 Sec. 16 Twp. 41S Rge. 24E			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date 5-83	
Depth-Base Lowest Known Wingate Fresh Water Within 1/2 Mile 1550'	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		State What Oil & Gas
Location of Injection Source(s) Desert Creek Paradox I & II San Juan River	Geologic Name(s) Desert Creek (5567') and Depth of Source(s) San Juan River (Surface)		
Geologic Name of Injection Zone Desert Creek I & II	Depth of Injection Interval 5494 to 5607		
a. Top of the Perforated Interval: 5494	b. Base of Fresh Water: 1550'	c. Intervening Thickness (a minus b) 3944	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES NO See Attachment #4			
Lithology of Intervening Zones See Attachment #1			
Injection Rates and Pressures Maximum 455 (12-82) B/D 1800 PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent.			
Navajo Tribe, Minerals Dept., P.O. Box 146, Window Rock, AZ 86515			
Superior Oil, P.O. Box 4530, The Woodlands, TX 77380			
Texaco Inc., P.O. Box 2100, Denver, CO 80201			
Southland Royalty, 1000 Fort Worth Club Tower, Fort Worth, TX 76102			

State of Wyoming

PHILLIPS PETROLEUM COMPANY

County of Natrona

Applicant

Before me, the undersigned authority, on this day personally appeared A. E. Stuart
known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on
oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated
therein, and that said report is true and correct.

Suscribed and sworn to before me this 21st day of Sept, 19 83

SEAL

DONALD L. HUDSON - Notary Public

County of Natrona

State of Wyoming

My commission expires

My Commission Expires Nov. 3, 1986

Notary Public in and for Natrona Co., Wyoming

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehold within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13-3/8	173	175	Surface	Returns
Intermediate	8-5/8	1463	800 cu ft	surface	Returns
Production	5-1/2	5644	550 cu ft	4253	CALCULATED
Tubing	2-1/2	5439	Name - Type - Depth of Tubing Packer Baker Loc Set Pkr 5439		
PB Total Depth 5622	Geologic Name - Inj. Zone Desert Creek I & II		Depth - Top of Inj. Interval 5494		Depth - Base of Inj. Interval 5607

(To be filed within 30 days after drilling is completed)

14-20-603- 355

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

LEASE NO.

API NO. 43-037-16414

640 Acres
N

DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

COUNTY San Juan SEC. 16 TWP. 41S RGE. 24E

COMPANY OPERATING Phillips Petroleum Company

OFFICE ADDRESS P.O. Box 2920

TOWN Casper STATE WYOMING ZIP 82602

FARM NAME _____ WELL NO. 16W21

DRILLING STARTED 12-5-19 58 DRILLING FINISHED 12-30-19 58

DATE OF FIRST PRODUCTION 1-28-59 COMPLETED 2-11-59

WELL LOCATED NE $\frac{1}{4}$ NW $\frac{1}{4}$

660 FT. FROM NL OF $\frac{1}{4}$ SEC. & 1880 FT. FROM WL OF $\frac{1}{4}$ SEC.

RKB ELEVATION RECK 4656 GROUND 4644.7

TYPE COMPLETION

Single Zone _____

Multiple Zone X

Comingled _____

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Desert Creek I	5494	5550			
Desert Creek II	5599	5607			

CASING & CEMENT

Casing Set				Ceg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
13-3/8	27.1	H-40	161		175		surface
8-5/8	24	J-55	1459		800 cu ft.		surface
5-1/2	14	J-55	5671		550 cu ft.	1417	4253

PBTD 5622

TOTAL DEPTH 5644

PACKERS SET Baker Loc Set Pkr @ 5439

DEPTH _____

NOTE THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	1	2	3
Desert Creek I+II			
SPACING & SPACING ORDER NO.	40 acre Cause #C-3(B)		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery		
PERFORATED	I 5494-5502	II 5599-5607	
INTERVALS	5507-11		
	5520-34		
	5546-5550		
ACIDIZED?	1-22-75 3000 gal 15% Regular Acid		
FRACTURE TREATED?	No		

INITIAL TEST DATA

Converted to Injector 2-3-62

Date	4-30-62		
Oil, bbl./day	--		
Oil Gravity	--		
Gas, Cu. Ft./day	-- CF	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	--		
Water-Bbl./day	746		
Pumping or Flowing	pumping		
CHOKE SIZE	--		
FLOW TUBING PRESSURE	300		

A record of the formations drilled through, and pertinent remarks are presented on the reverse.
(use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone 307-237-3791

A.E. Stuart, Area Manager

Name and title of representative of company

Subscribed and sworn before me this _____ day of _____ 1962

Casper

WELL: 16W21
LOCATION: NENW Sec. 14 - T41S - R24E
FIELD: GREATER ANETH
RESERVOIR: Desert Creek I+II

I COMPLETION: 2.3.62
PRESENT STATUS: W.I.

RKB 4656'
GL 4644.7'

173'

SURFACE CASING: 13 3/8" 27.1#
H-40

INTERMEDIATE CASING: 8 5/8"
14# J-55

PRODUCTION CASING: 5 1/2" 14#
J-55

1463'

PERFORATIONS: _____
5494-5502
5507-11
5520-34
5546-50
5599-5607

PACKER: Baker loc-set Pkr
@ 5439'
Tubing: 2 1/2" @ 5439'

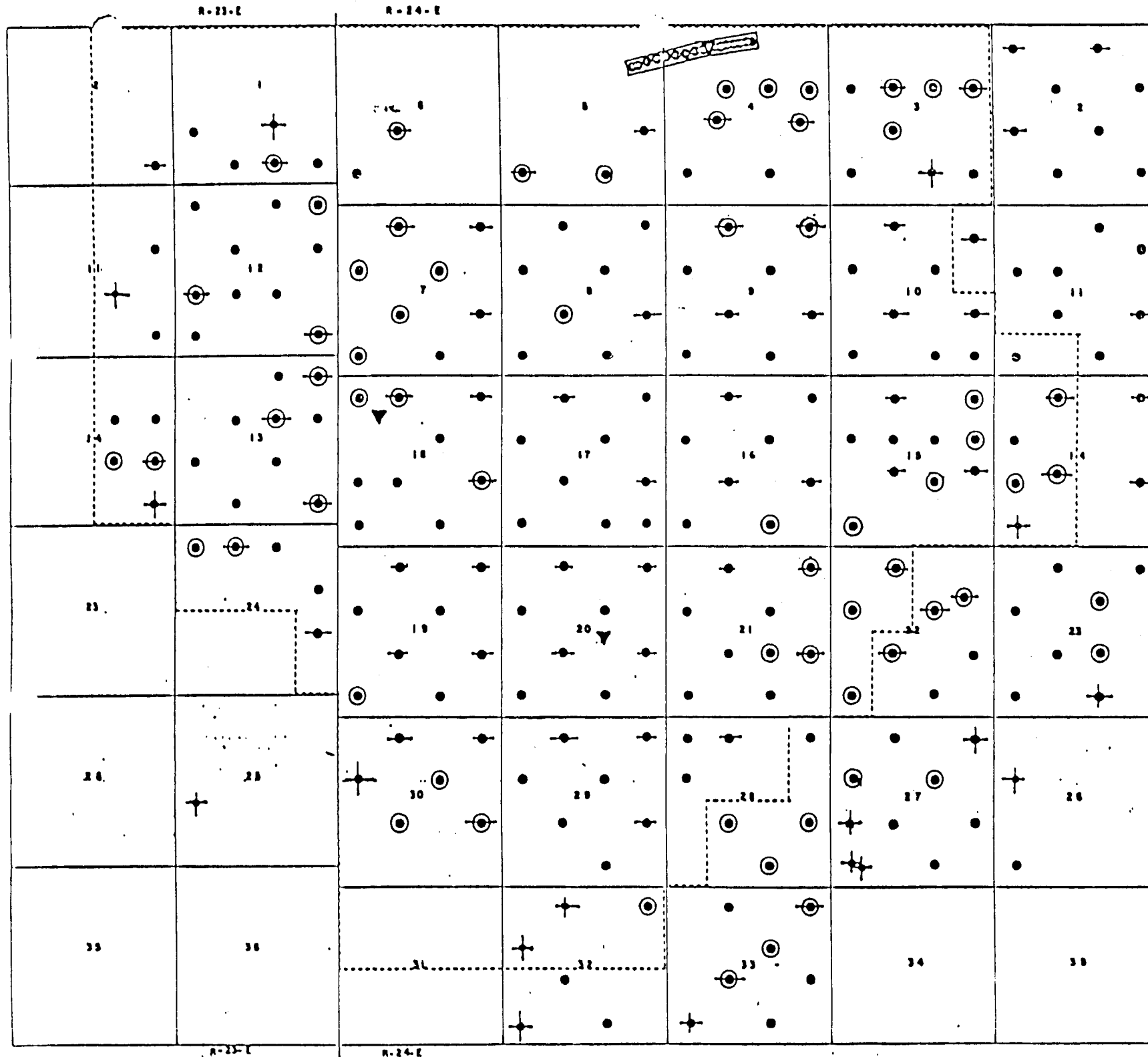
5439'

5494' - 5607'

PBTD: 5622'
OTD: 5644'

5644'

Phillips Petroleum Company



WTE INJECTION WELL

CL1-12A (REV. 1964)

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR Phillips Petroleum Co. DATE 5-27-83 LAB NO. W30480
 WELL NO. Rutherford Unit LOCATION _____
 FIELD _____ FORMATION _____
 COUNTY San Juan INTERVAL _____
 STATE Utah SAMPLE FROM _____

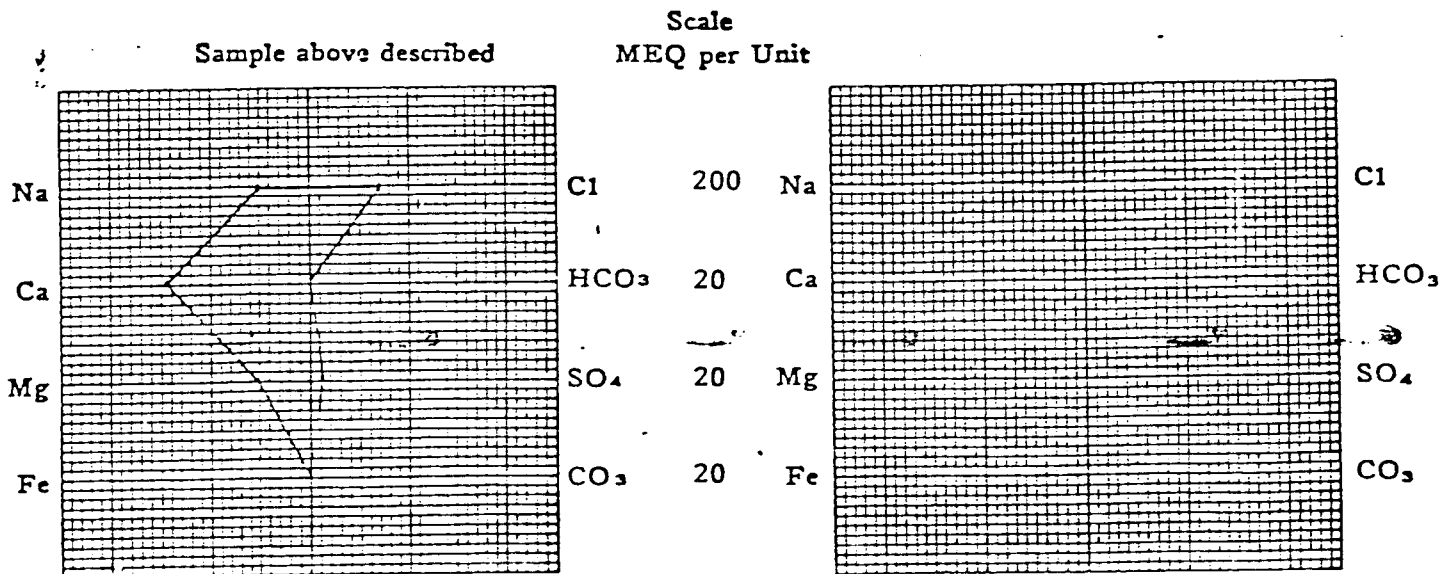
REMARKS & CONCLUSIONS: Specific gravity @68°F ----- 1.0646
 Oil and grease, mg/l ----- 2.5
 Aluminum (Al), mg/l ----- 0.90
 Iron (Fe), mg/l ----- 0.3
 Total Sulfides, mg/l ----- ND(0.1)

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	24574	1068.99	Sulfate	1190	24.75
Potassium	396	10.14	Chloride	52000	1466.40
Lithium	-	-	Carbonate	0	0.00
Calcium	5982	298.50	Bicarbonate	190	3.12
Magnesium	1419	116.64	Hydroxide	-	-
Iron	-	-	Hydrogen sulfide	-	-
Total Cations		1494.27	Total Anions		1494.27

Total dissolved solids, mg/l ----- 85655
 NaCl equivalent, mg/l ----- 86344
 Observed pH ----- 7.4

Specific resistance @ 68°F.:
 Observed ----- 0.095 ohm-meters
 Calculated ----- 0.086 ohm-meters

WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/l = Milligrams per liter Meq/l = Milligram equivalents per liter

Sodium chloride equivalent by Dunlap & Hawthorne calculation from components

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794
Casper, Wyoming

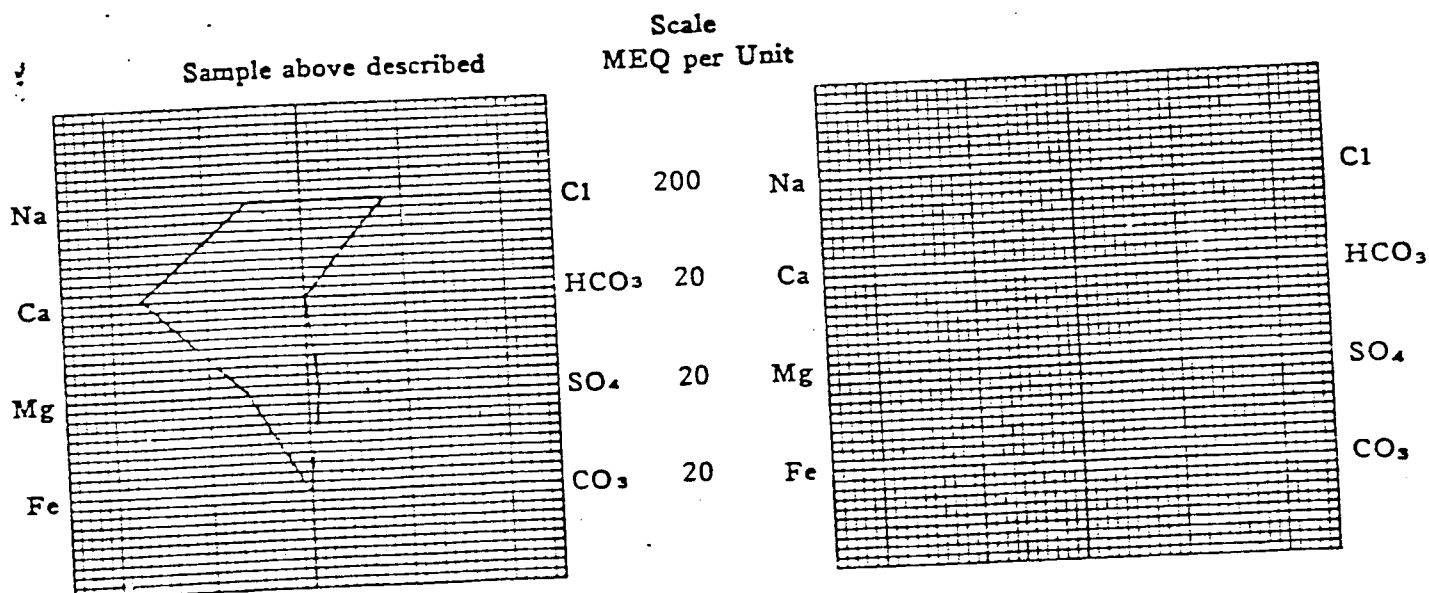
WATER ANALYSIS REPORT

OPERATOR Phillips Petroleum Company DATE 7-22-83 LAB NO. W30636
 WELL NO. Ratherford Unit LOCATION _____
 FIELD _____ FORMATION _____
 COUNTY San Juan INTERVAL _____
 STATE Utah SAMPLE FROM Battery #1 Free water knockout
(7-5-83) @ 10:35
S/N 28568

REMARKS & CONCLUSIONS:

Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	30147	1311.38	Sulfate	1380	28.70
Potassium	429	10.98	Chloride	63000	1776.60
Lithium	--	--	Carbonate	0	0.00
Calcium	6865	342.56	Bicarbonate	151	2.48
Magnesium	1738	124.86	Hydroxide	--	--
Iron	--	--	Hydrogen sulfide	--	--
Total Cations		1807.78	Total Anions		1807.78
Total dissolved solids, mg/l		103633	Specific resistance @ 68°F.:		
NaCl equivalent, mg/l		104549	Observed	0.087	ohm-meters
Observed pH		7.3	Calculated	0.078	ohm-meters

WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)
 NOTE: Mg/l = Milligrams per liter Meq/l = Milligram equivalents per liter
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Phillips Well No. Rutherford Unit 16W21
 County: San Juan T 41S R 24E Sec. 16 API# 43-027-16414
 New Well ☐ Conversion ☐ Disposal Well ☐ Enhanced Recovery Well ☒

	<u>YES</u>	<u>NO</u>
UID Forms Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Plat including Surface Owners, Leaseholders, and wells of available record	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schematic Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fracture Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pressure and Rate Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adequate Geologic Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fluid Source	<u>Oil and Gas</u>	<input type="checkbox"/>

Analysis of Injection Fluid

Yes ☒ No ☐ TDS 85655

Analysis of Water in Formation
to be injected into

Yes ☒ No ☐ TDS 103633

Known USDW in area

Wingate Depth 1550

Number of wells in area of review

8 Prod. 6 P&A 0

Water 0 Inj. 2

Aquifer Exemption

Yes ☐ NA ☒

Mechanical Integrity Test

Yes ☐ No ☒

Date Type

Comments: TOC 4250

Reviewed by: CTJ

UTAH DIVISION OF OIL, GAS AND MINING
CASING-BRADENHEAD TEST

OPERATOR: Phillips Petroleum
FIELD: Greater Aneth LEASE: Ratherford
WELL # A-12 16 W 21 SEC. 16 TOWNSHIP 4/5 RANGE 24 E
STATE FED. FEE 5622 TYPE WELL INJW MAX. INJ. PRESS. 1800

TEST DATE 6/17/80

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>13 3/8</u>	<u>173</u>	<u>175</u>			
<u>INTERMEDIATE</u>	<u>8 5/8</u>	<u>1463</u>	<u>800</u>			
<u>PRODUCTION</u>	<u>5 1/2</u>	<u>5644</u>	<u>550</u>	<u>VACUUM</u>	<u>LOW INJ. PRESS</u> <u>POSSIBLE LEAK?</u>	<u>CHECK</u> <u>SOON</u>
<u>TUBING</u>	<u>2 1/2</u>	<u>5439</u>		<u>40 PSI</u> <u>BAKER PACTE</u>	<u>Model AC</u>	<u>5439</u>

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER WATER INJECTION & WATER SUPPLY WELLS		5. LEASE DESIGNATION AND SERIAL NO. SW-I-4192
2. NAME OF OPERATOR PHILLIPS PETROLEUM COMPANY		7. UNIT AGREEMENT NAME RATHERFORD UNIT #7960041920
3. ADDRESS OF OPERATOR 152 N. DURBIN, 2ND FLOOR, CASPER, WYOMING 82601		8. FARM OR LEASE NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>SEE ATTACHED</u>		9. WELL NO. VARIOUS (see attached)
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT GREATER ANETH
15. ELEVATIONS (Show whether DF, HT, OR, etc.) OIL, GAS & MINING		11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA Sections 1 thru 30 T41S - R23E & 24E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) CHANGE OF OWNERSHIP <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This is to advise all Water Injection and Water Supply Wells on the Ratherford Unit, listed on the attached sheet, were sold to Phillips Petroleum Company, effective August 1, 1985.

(former Operator - Phillips Oil Company)

3 - BLM, Farmington, NM
2 - Utah O&G CC, SLC, UT
1 - File

18. I hereby certify that the foregoing is true and correct

SIGNED <u>S. H. Oden</u>	TITLE <u>District Superintendent</u>	DATE <u>March 17, 1989</u>
--------------------------	--------------------------------------	----------------------------

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

DOWNHOLE SCHEMATIC

Date: 8/6/87

RATHERFORD Unit # 16W21

Location NE NW Sec. 16

RKB Elev. 4654'

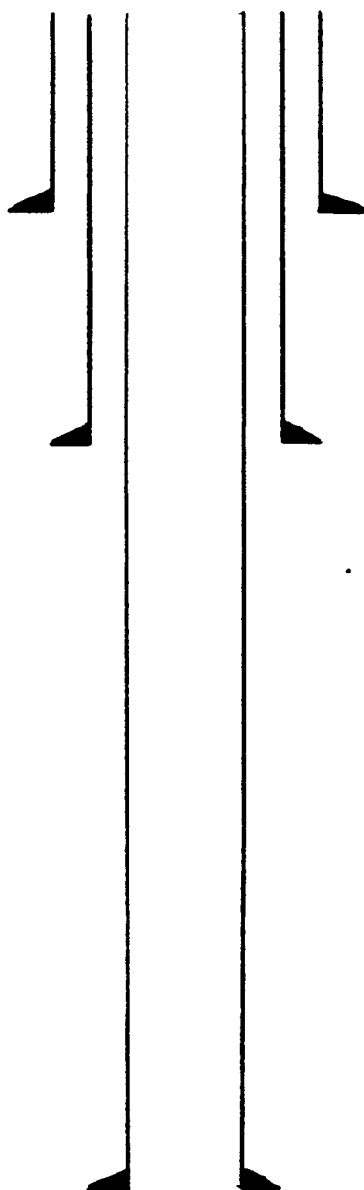
T41S-R24E

GL Elev. 4644'

Well Drld 12/30/58

RKB Above GL' 10'

Well converted
to injector 4/30/62



CONDUCTOR CSG 13^{3/8}" @ 173'

SURFACE CSG. 8^{5/8}" @ 1465'

TOC 3500' CALC.

Tubing 2 1/2" @ 5527' MARLEX LINED

PACKER BAKER TENSION SET
@ 5,367'

PERFS	<u>5,494 - 5,502</u>	<u>5,599 - 5,607</u>
	<u>5,507 - 11</u>	<u>-</u>
	<u>5,520 - 34</u>	<u>-</u>
	<u>5,546 - 50</u>	<u>-</u>

PBTD 5,622'

PRODUCTION CSG. 5 1/2" @ 5644'
J-55, 14#

All Perfs Zone I unless noted

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

6. LEASE DESIGNATION AND SERIAL NO.

14-20-603-355

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

SW-I-4192

8. FARM OR LEASE NAME

Ratherford Unit

9. WELL NO.

16W21

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., N., OR S.E. AND
SURVEY OR AREA

Sec. 16-T41S-R24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER Water Injector

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

P. O. Box 1150, Cortez, CO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

660' FNL & 1880' FWL, NE NW

14. PERMIT NO.

43-037-16414

15. ELEVATIONS (Show whether DV, HT, OR, etc.)

4656' RKB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACURE TREAT

SHOOT OR ACIDISE

REPAIR WELL

(Other)

PLUG OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACURE TREATMENT

SHOOTING OR ACIDISING

(Other) Clean out well - UIC Test

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

March 21, 1990 Through March 29, 1990

MI & RU well service unit 3/21/90. ND WH, NU BOP. Rel Baker 5-1/2" Lok-set pkr, COOH w/179 jts 2-7/8" Rice Duo-lined tbg. GIH w/4-3/4" blade bit, 5-1/2" csg scraper, and 2-7/8" workstring. Drld & cleaned out well to 5578' (could not go farther). COOH w/bit & scraper. GIH w/5-1/2" Baker Lok-set pkr w/on-off tool and 2-3/8" Rice duo-lined tbg, drifting barrier rings and testing tbg to 3000 psi. Set pkr at 5378'. Pressured annulus to 1200 psi, OK. Disengaged on-off tool, pmpd pkr fluid (1/2 drum WA-840 Well Chem with 118 bbls wtr). Engaged on-off tool. ND BOP, NU WH. Pressured annulus to 1000 psi for 45 min for UIC Test. Held OK. Expelled test plug. Hook up injection line. RD & MO well service unit and returned well to injection 3/29/90.

Distribution:

5 - BLM, Farmington
2 - Utah O&GCC
1 - EPA, Denver
1 - N. Anstine
1 - V. S. Shaw
1 - S. H. Oden
1 - P. J. Konkell

1 - Chieftain
1 - Mobil Oil
1 - Texaco, Inc.
1 - Chevron
1 - PPCo, Houston
1 - PPCo, Cortez

UIC	
GLH	<input checked="" type="checkbox"/>
DJJ	<input type="checkbox"/>
BGH	<input type="checkbox"/>
COMPUTER	<input checked="" type="checkbox"/>
MICROFILM	<input type="checkbox"/>
FILE	<input type="checkbox"/>

OIL AND GAS	
DBN	INF
JTB	1 - GLH
DTT	SLS
2-TAS	
3- MICROFILM	DATE April 9, 1990
4- FILE	

18. I hereby certify that the foregoing is true and correct

SIGNED

S. H. Oden

TITLE District Superintendent

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side.

STATE OF UTAH
DIVISION OF OIL, GAS AND MININGPage 1 of 10

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

P J KONKEL
PHILLIPS PETROLEUM COMPANY
5525 HWY 64 NBU 3004
FARMINGTON NM 87401

RECEIVED

AUG 16 1993

ACCOUNT NUMBER: N0772

REPORT PERIOD (MONTH/YEAR):

6 / 93

DIVISION OF
OIL, GAS & MININGAMENDED REPORT ☐ (Highlight Changes)

Well Name					Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location						OIL(BBL)	GAS(MCF)	WATER(BBL)
#21-23					DSCR	POW	29	1374	883	58
4303713754	06280	41S	24E	21						
#3-44					DSCR	POW	30	111	94	2905
4303715031	06280	41S	24E	3						
#3-14					DSCR	POW	30	67	23	302
4303715124	06280	41S	24E	3						
#9-12					DSCR	POW	30	112	654	17363
4303715126	06280	41S	24E	9						
#9-14					DSCR	POW	30	201	315	423
4303715127	06280	41S	24E	9						
#28-12					PRDX	POW	29	112	47	2428
4303715336	06280	41S	24E	28						
#29-12					PRDX	POW	29	56	0	672
4303715337	06280	41S	24E	29						
#29-32					DSCR	POW	29	1402	287	2224
4303715339	06280	41S	24E	29						
#29-34					DSCR	POW	29	757	48	0
4303715340	06280	41S	24E	29						
#30-32					DSCR	POW	29	588	1049	3744
4303715342	06280	41S	24E	30						
#3-12					DSCR	POW	30	268	11	363
4303715620	06280	41S	24E	3						
#9-34					DSCR	POW	30	45	46	9800
4303715711	06280	41S	24E	9						
#10-12					DSCR	POW	30	45	23	1088
4303715712	06280	41S	24E	10						
TOTALS								5138	3480	41370

COMMENTS: Effective July 1, 1993, Phillips Petroleum Company has sold its interest in the
 Ratherford Unit to Mobil Exploration and Producing U.S., Incorporated, P. O. Box
 633, Midland, Texas 79702. Mobil assumed operations on July 1, 1993.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 8/11/93

Name and Signature: PAT KONKEL

Pat Konkell

Telephone Number: 505 599-3452

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS <small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		3. LEASE DESIGNATION & SERIAL NO. 6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO TRIBAL	
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME RATHERFORD UNIT	
2. NAME OF OPERATOR MOBIL OIL CORPORATION		8. FARM OR LEASE NAME	
3. ADDRESS OF OPERATOR P. O. BOX 633 MIDLAND, TX 79702		9. WELL NO.	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface At proposed prod. zone		10. FIELD AND POOL, OR WILDCAT GREATER ANETH	
14. API NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		12. COUNTY SAN JUAN	
13. STATE UTAH			

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>CHANGE OF OPERATOR</u> <input type="checkbox"/>	
APPROX. DATE WORK WILL START _____ (Other)		DATE OF COMPLETION _____ (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

AS OF JULY 1, 1993, MOBIL OIL CORPORATION IS THE OPERATOR OF THE RATHERFORD UNIT. ATTACHED ARE THE INDIVIDUAL WELLS.

18. I hereby certify that the foregoing is true and correct

SIGNED Shirley Todd TITLE ENV. & REG TECHNICIAN DATE 9-8-93

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

✓12W-44	43-037-16405	14-20-603-246A	SEC. 12, T41S, R23E	SE/SE 660 FSL; 660 FEL
✓12W-44A	43-037-31543	14-20-603-246A	SEC. 12, T41S, R23E	SE/SE 807 FEL; 772 FSL
✓13-11W	43-037-31152	14-20-603-247A	SEC. 13, T41S, R23E	NW/NW 500 FNL; 660 FWL
✓13-12	43-037-31127	14-20-603-247A	SEC. 13, T41S, R23E	SW/NW 1705 FNL; 640 FWL
✓13W-13	43-037-15851	14-20-603-247A	SEC. 13, T41S, R23E	NW/SW 1980 FSL; 4620 FEL
✓13-14	43-037-31589	14-20-603-247A	SEC. 13, T41S, R23E	660 FSL; 660 FWL
✓13-21	43-037-31128	14-20-603-247A	SEC. 13, T41S, R23E	NE/NW 660 FNL; 1920 FWL
✓13W-22	43-037-15852	14-20-603-247A	SEC. 13, T41S, R23E	SE/NW 1988 FNL; 3300 FEL
✓13-23	43-037-31129	14-20-603-247A	SEC. 13, T41S, R23E	NE/SW 1980 FSL; 1930 FWL
13W-44	43-037-15853	14-20-603-247	SEC. 13, T41S, R23E	600 FSL; 3300 FEL
✓13W-32	43-037-16406	14-20-603-247A	SEC. 13, T41S, R23E	1881 FNL; 1979 FEL
✓13W-33	43-037-15855	14-20-603-247A	SEC. 13, T41S, R23E	NW/SE 1970 FSL; 1979 FEL
✓13W-34	43-037-31130	14-20-603-247A	SEC. 13, T41S, R23E	SW/SE 660 FSL; 1980 FEL
✓13-41	43-037-15856	14-20-603-247A	SEC. 13, T41S, R23E	NE/NE 660 FNL; 660 FEL
✓13W-42	43-037-15857	14-20-603-247A	SEC. 13, T41S, R23E	SE/NE 2139; 585 FEL
✓13-43	43-037-31131	14-20-603-247A	SEC. 13, T41S, R23E	NE/SE 1700 FSL; 960 FEL
✓13W-44	43-037-16407	14-20-603-247A	SEC. 13, T41S, R23E	SE/SE 635 FSL; 659 FEL
14-03	NA	14-20-603-4037	SEC. 11, T41S, R23E	SW/SW 660 FSL; 660 FEL
✓14-32	43-037-15858	14-20-603-247A	SEC. 14, T41S, R23E	2130 FNL; 1830 FEL
✓14-41	43-037-31623	14-20-603-247A	SEC. 14, T41S, R23E	NE/NE 521 FEL; 810 FNL
✓14W-42	43-037-15860	14-20-603-247A	SEC. 14, T41S, R23E	SE/NE 1976 FNL; 653 FEL
✓14W-43	43-037-16410	14-20-603-247A	SEC. 14, T41S, R23E	3300 FSL; 4770 FEL
✓14-33	43-037-15859	14-20-603-247	SEC. 14, T41S, R23E	2130 FSL; 1830 FEL
✓15-12	43-037-15715	14-20-603-355	SEC. 15, T41S, R24E	1820 FNL; 500 FWL
✓15W-21	43-037-16411	14-20-603-355	SEC. 15, T41S, R24E	660 FNL; 1820 FWL
✓15-22	43-037-30449	14-20-603-355	SEC. 15, T41S, R24E	SE/NW, 1980 FNL; 2050 FWL
✓15-32	43-037-15717	14-20-603-355A	SEC. 15, T41S, R24E	1980 FNL; 1980 FEL
✓15-33	43-037-15718	14-20-603-355	SEC. 15, T41S, R24E	NW/SE 1650 FSL; 1980 FEL
✓15-41	43-037-15719	14-20-603-355	SEC. 15, T41S, R24E	660 FNL; 660' FEL
✓15-42	43-037-30448	14-20-603-355	SEC. 15, T41S, R24E	SE/NE 2020 FNL; 820 FEL
✓16W-12	43-037-15720	14-20-603-355	SEC. 16, T41S, R24E	SW/NW 1880 FNL; 660 FWL
✓16-13	43-037-31168	14-20-603-355	SEC. 16, T41S, R24E	1980 FSL; 660 FWL
✓16W-14	43-037-15721	14-20-603-355	SEC. 16, T41S, R24E	SW/SW 660 FSL; 660 FWL
✓16W-21	43-037-16414	14-20-603-355	SEC. 16, T41S, R24E	NE/NW 660 FNL; 1880 FWL
✓16W-23	43-037-15722	14-20-603-355	SEC. 16, T41S, R24E	NE/SW 1980 FSL; 1980 FWL
✓16-32	43-037-15723	14-20-603-355	SEC. 16, T41S, R24E	1980 FNL; 1980' FEL
✓16-34	43-037-15724	14-20-603-355	SEC. 16, T41S, R24E	660 FNL; 1980' FEL
✓16-41	43-037-15725	14-20-603-355	SEC. 16, T41S, R24E	660 FNL; 660 FEL
✓16W-43	43-037-16415	14-20-603-355	SEC. 16, T41S, R24E	NE/SE 2140 FSL; 820 FEL
✓17-11	43-037-31169	14-20-603-353	SEC. 17, T41S, R24E	NW/NW 1075' FNL; 800' FWL
✓17W-12	43-037-15726	14-20-603-353	SEC. 17, T41S, R24E	SW/NW 1980' FNL; 510' FWL
✓17-13	43-037-31133	14-20-603-353	SEC. 17, T41S, R24E	NW/SW 2100' FSL; 660' FWL
✓17W-14	43-037-15727	14-20-603-353	SEC. 17, T41S, R24E	SW/SW 660' FSL; 660' FWL
✓17W-21	43-037-16416	14-20-603-353	SEC. 17, T41S, R24E	510' FNL; 1830' FWL
✓17-22	43-037-31170	14-20-603-353	SEC. 17, T41S, R24E	1980' FNL; 1980' FWL
✓17W-23	43-037-15728	14-20-603-353	SEC. 17, T41S, R24E	NE/SW 1980' FWL; 1880' FSL
✓17-31	43-037-31178	14-20-603-353	SEC. 17, T41S, R24E	NW/NE 500' FNL; 1980' FEL
✓17-32W	43-037-15729	14-20-603-353	SEC. 17, T41S, R24E	SW/NE 1830' FNL; 2030' FEL
✓17-33	43-037-31134	14-20-603-353	SEC. 17, T41S, R24E	NW/SE 1980' FSL; 1845' FEL
✓17-34W	43-037-15730	14-20-603-353	SEC. 17, T41S, R24E	SW/SE 560' FSL; 1880' FEL
✓17W-41	43-037-15731	14-20-603-353	SEC. 17, T41S, R24E	610' FNL; 510' FEL
✓17-42	43-037-31177	14-20-603-353	SEC. 17, T41S, R24E	SE/NE 1980; FNL, 660' FEL
✓17-44	43-037-15732	14-20-603-353	SEC. 17, T41S, R24E	660 FSL; 660' FEL
✓17W-43	43-037-16417	14-20-603-353	SEC. 17, T41S, R24E	NE/SE 1980' FSL; 660' FEL
✓18-11	43-037-15733	14-20-603-353	SEC. 18, T41S, R24E	NW/NW 720' FNL; 730' FWL
✓18-12W	43-037-31153	14-20-603-353	SEC. 18, T41S, R24E	SW/NW 1980' FNL; 560' FWL
✓18W-21	43-037-16418	14-20-603-353	SEC. 18, T41S, R24E	NE/NW 660' FNL; 1882' FWL
✓18-22	43-037-31236	14-20-603-353	SEC. 18, T41S, R24E	SW/NW 2200' FNL; 2210' FWL
✓18W-23	43-037-30244	14-20-603-353	SEC. 18, T41S, R24E	NE/SW 2385' FSL; 2040' FWL
✓18W-14	43-037-15735	14-20-603-353	SEC. 18, T41S, R24E	SW/SW 810' FSL; 600' FWL
✓18-24	43-037-31079	14-20-603-353	SEC. 18, T41S, R24E	SE/SW 760' FSL; 1980' FWL
✓18-31	43-037-31181	14-20-603-353	SEC. 18, T41S, R24E	NW/NE 795' FNL; 2090; FEL
18W-32	43-037-15736	14-20-603-353	SEC. 18, T41S, R24E	SW/NE 2140' FNL; 1830' FEL
✓18-33	43-037-31135	14-20-603-353	SEC. 18, T41S, R24E	NW/SE 1870' FSL; 1980' FEL
✓18-34W	43-037-15737	14-20-603-353	SEC. 18, T41S, R24E	SW/SE 780' FSL; 1860 FEL
✓18W-41	43-037-15738	14-20-603-353	SEC. 18, T41S, R24E	NE/NE 660' FNL; 660' FEL
✓18-42	43-037-31182	14-20-603-353	SEC. 18, T41S, R24E	SE/NE 2120' FNL; 745' FEL
✓18W-43	43-037-16419	14-20-603-353	SEC. 18, T41S, R24E	NE/SE 1980' FSL; 660' FEL
✓18-44	43-037-31045	14-20-603-353	SEC. 18, T41S, R24E	SE/SE 660' FSL; 660' FEL
✓19-11	43-037-31080	14-20-603-353	SEC. 19, T41S, R24E	NW/NW 660' FNL; 660' FWL
✓19-12	43-037-15739	14-20-603-353	SEC. 19, T41S, R24E	600' FWL; 1980' FNL
✓19-14	43-037-15740	14-20-603-353	SEC. 19, T41S, R24E	600' FSL; 660' FEL

PA'd

PA'd

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Page 1 of 1

MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

L.B. Sheffield~~BRIAN BERRY~~~~M.E.P.N.A. MOBIL~~~~POB 219031 1807A RENTW~~DALLAS TX 75221-9031 *P.O. DRAWER G**CORTEZ, CO. 81321*UTAH ACCOUNT NUMBER: N7370REPORT PERIOD (MONTH/YEAR): 7 / 93AMENDED REPORT ☐ (Highlight Changes)**931006 updated.
Jec*

ENTITY NUMBER	PRODUCT	GRAVITY	BEGINNING INVENTORY	VOLUME PRODUCED	DISPOSITIONS				ENDING INVENTORY
		BTU			TRANSPORTED	USED ON SITE	FLARED/VENTED	OTHER	
05980	OIL			177609	177609	0			
	GAS			72101	66216	5885			
11174	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
TOTALS				249710	243825	5885			

RECEIVED

SEP 13 1993

DIVISION OF
OIL, GAS & MINING

COMMENTS:

*PLEASE NOTE ADDRESS change. Robin ~~also~~ PRODUCTION Reports
will be compiled and sent from the Cortez, Co. office
IN THE FUTURE.*

I hereby certify that this report is true and complete to the best of my knowledge.

Date:

9/5/93

Name and Signature:

L. B. Sheffield

Telephone Number:

*303 565 2212
244 558 2528*

Sept 29, 1993

TO: Lisha Cordova - Utah Mining
Oil & Gas

FROM: Janice Easley
BLM Farmington, NM
505 599-6355

Here is copy of Rutherford Unit
Successor Operator,

4 pages including this one.

File Ratherford Unit (GC)

RECEIVED
BLM

JUL 27 AM 11:44

070 FARMINGTON, NM

Navajo Area Office
P. O. Box 1060
Gallup, New Mexico 87305-1060

ARES/543

JUL 26 1993

Mr. G. D. Cox
Mobil Exploration and
Producing North America, Inc.
P. O. Box 633
Midland, Texas 79702

Dear Mr. Cox:

Enclosed for your information and use is the approved Designation of Operator between the Phillips Petroleum Company and Mobil Exploration and Producing North America, Inc. for the Ratherford Unit.

Please note that all other concerned parties will be furnished their copy of the approved document.

Sincerely,

[Handwritten Signature]

ACTING Area Director

Enclosure

cc: Bureau of Land Management, Farmington District Office w/enc.
TNN, Director, Minerals Department w/enc.

MINERAL RIGHTS	1
LAND	3
WATER	2
OTHER	
ALL SUPPLY	
FILE	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

DESIGNATION OF OPERATOR

RECEIVED
BLM

Phillips Petroleum Company is, on the records of the Bureau of Indian Affairs, operator of the Ratherford Unit,

AREA OFFICE: Window Rock, Arizona
LEASE NO: Attached hereto as Exhibit "A"

070 FARMINGTON, NM

and, pursuant to the terms of the Ratherford Unit Agreement, is resigning as Unit Operator effective July 1, 1993, and hereby designates

NAME: Mobil Exploration and Producing North America Inc., duly elected pursuant to the terms of the Ratherford Unit Agreement,

ADDRESS: P. O. Box 633, Midland, Texas 79702
Attn: G. D. Cox

as Operator and local agent, with full authority to act on behalf of the Ratherford Unit lessees in complying with the terms of all leases and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160 and 25 CFR 211 and 212) with respect to (described acreage to which this designation is applicable):

Attached hereto as Exhibit "A"

Bond coverage under 25 CFR 211, 212 or 225 for lease activities conducted by the above named designated operator is under Bond Number 05202782 (attach copy). Evidence of bonding is required prior to the commencement of operations.

It is understood that this designation of operator does not relieve any lessee of responsibility for compliance with the terms of the leases and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the leases.

In case of default on the part of the designated operator, the lessees will make full and prompt compliance with all regulations, lease terms, stipulations, or orders of the Secretary of the Interior or his representative.

Attached is the appropriate documentation relevant to this document.

The designated operator agrees to promptly notify the authorized officer of any change in the operatorship of said Ratherford Unit.

Phillips Petroleum Company

June 17, 1993

By: M. B. [Signature]
Attorney-in-Fact

Mobil Exploration and Producing
North America Inc.

June 11, 1993

By: B. D. Martiny
Attorney-in-Fact B.D. MARTINY

[Signature] ACTING AREA DIRECTOR
APPROVED BY TITLE DATE
7/9/93

APPROVED PURSUANT, TO SECRETARIAL REDELEGATION ORDER 209 DM 8 AND 230 DM 3.

This form does not constitute an information collection as defined by 44 U.S.C. 3502 and therefore does not require OMB approval.

EXHIBIT "A"

ATTACHED TO AND MADE A PART OF DESIGNATION OF SUCCESSOR OPERATOR, RATHERFORD UNIT

EXHIBIT "C"

Revised as of September 29, 1992
SCHEDULE OF TRACT PERCENTAGE PARTICIPATION

<u>Tract Number</u>	<u>Description of Land</u>	<u>Serial Number and Effective Date of Lease</u>	<u>Tract Percentage Participation</u>
1	S/2 Sec. 1, E/2 SE/4 Sec. 2, E/4 Sec. 11, and all of Sec. 12, T-41-S, R-23-E, S.L.M. San Juan County, Utah	14-20-603-246-A Oct. 5, 1953	11.0652565
2	SE/4 and W/2 SW/4 Sec. 5, the irregular SW/4 Sec. 6, and all of Sec. 7 and 8, T-41-S, R-24-E, San Juan County, Utah	14-20-603-368 Oct. 26, 1953	14.4159942
3	SW/4 of Sec. 4, T-41-S, R-24-E, San Juan County, Utah	14-20-603-5446 Sept. 1, 1959	.5763826
4	SE/4 Sec. 4, and NE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4035 March 3, 1958	1.2587779
5	SW/4 of Sec. 3, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5445 Sept. 3, 1959	.4667669
6	NW/4 of Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5045 Feb. 4, 1959	1.0187043
7	NW/4, W/2 NE/4, and SW/4 Sec. 10, SE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4043 Feb. 18, 1958	3.5097575
8	SW/4 Sec. 9, T-41-S, R-24-E, S.L.M. San Juan County, Utah	14-20-603-5046 Feb. 4, 1959	1.1141679
9	SE/4 Sec. 10 and S/2 SW/4 Sec. 11 T-41-S, R-24-E, San Juan County, Utah	14-20-603-4037 Feb. 14, 1958	2.6186804
10	All of Sec. 13, E/2 Sec. 14, and E/2 SE/4 and N/2 Sec. 24, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-247-A Oct. 5, 1953	10.3108861
11	Sections 17, 18, 19 and 20, T-41-S, R-24-E, San Juan County Utah	14-20-603-353 Oct. 27, 1953	27.3389265
12	Sections 15, 16, 21, and NW/4, and W/2 SW/4 Sec. 22, T-41-S, R-24-E, San Juan County, Utah	14-20-603-355 Oct. 27, 1953	14.2819339
13	W/2 Section 14, T-41-S, R-24-E, San Juan County, Utah	14-20-603-370 Oct. 26, 1953	1.8500847
14	N/2 and SE/4, and E/2 SW/4 Sec. 29, NE/4 and E/2 SE/4 and E/2 W/2 irregular Sec. 30, and E/2 NE/4 Sec. 32, T-41-S, R-24-E, San Juan County, Utah	14-20-603-407 Dec. 10, 1953	6.9924969
15	NW/4 Sec. 28, T-41-S, R24-E San Juan County, Utah	14-20-603-409 Dec. 10, 1953	.9416393
16	SE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6504 July 11, 1961	.5750254
17	NE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6505 July 11, 1961	.5449292
18	NW/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6506 July 11, 1961	.5482788
19	NE/4 Sec. 4, T-41-S, R24-E San Juan County, Utah	14-20-0603-7171 June 11, 1962	.4720628
20	E/2 NW/4 Sec. 4, T-41-S, R-24-E San Juan County, Utah	14-20-0603-7172 June 11, 1962	.0992482

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File _____

☐ Suspense
(Return Date) _____
(To - Initials) _____

☒ Other
OPERATOR CHANGE

(Location) Sec____Twp____Rng____

(API No.) _____

1. Date of Phone Call: 10-6-93 : Time: 9:30

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☒
Talked to:

Name GLEN COX (Initiated Call ☐ - Phone No. (915) 688-2114

of (Company/Organization) MOBIL

3. Topic of Conversation: OPERATOR CHANGE FROM PHILLIPS TO MOBIL "RATHERFORD UNIT".
(NEED TO CONFIRM HOW OPERATOR WANTS THE WELLS SET UP - MEPNA AS PER BIA APPROVAL
OR MOBIL OIL CORPORATION AS PER SUNDRY DATED 9-8-93?)

4. Highlights of Conversation: _____

MR. COX CONFIRMED THAT THE WELLS SHOULD BE SET UNDER ACCOUNT N7370/MEPNA AS
PER BIA APPROVAL, ALSO CONFIRMED THAT PRODUCTION & DISPOSITION REPORTS WILL NOW
BE HANDLED OUT OF THEIR CORTEZ OFFICE RATHER THAN DALLAS.

MEPNA-

PO DRAWER G

CORTEZ, CO 81321

(303) 565-2212

*ADDRESS CHANGE AFFECTS ALL WELLS CURRENTLY OPERATED BY MEPNA, CURRENTLY
REPORTED OUT OF DALLAS (MCELMO CREEK).

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

OCT 25 1993

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: _____

Field or Unit name: RATHERFORD UNIT API no. _____

Well location: QQ _____ section _____ township _____ range _____ county _____

Effective Date of Transfer: July 1, 1993

CURRENT OPERATOR

Transfer approved by:

Name Ed Hasely Company Phillips Petroleum Company

Signature Ed Hasely Address 5525 HWY. 64

Title Environmental Engineer Farmington, NM 87401

Date October 22, 1993 Phone (505) 599-3460

Comments:

NEW OPERATOR

Transfer approved by:

Name Shirley Todd Company Mobil Exploration & Producing North America

Signature Shirley Todd Address P O Box 633

Title Env. & Reg. Technician Midland, TX 79702

Date October 7, 1993 Phone (915) 688-2585

Comments:

(State use only)

Transfer approved by [Signature] Title UIC Manager

Approval Date 10-27-93

BEFORE THE OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF UTAH

APPLICATION OF PHILLIPS PETROLEUM
COMPANY FOR THE APPROVAL OF THE
UNIT OPERATIONS AND PRESSURE MAIN-
TENANCE PROGRAM FOR THE RATHERFORD
UNIT IN THE GREATER ANETH AREA,
SAN JUAN COUNTY, UTAH

CAUSE NO. 63

ORDER

This Cause came on for hearing before the Oil and Gas Conservation Commission of the State of Utah at 10 o'clock a. m. on Wednesday, September 13, 1961, in the Crystal Room, Hotel Newhouse, Fourth South at Main Street, Salt Lake City, Utah, pursuant to notice duly and regularly given. The entire Commission, except Walter G. Mann, was present, Edward W. Clyde presiding. Appearances were made as follows: Cecil C. Hamilton, attorney, on behalf of Phillips Petroleum Company; Clair M. Senior, attorney, on behalf of Texaco, Inc.; Gordon Mayberry, attorney, on behalf of Continental Oil Company; R. R. Robison on behalf of Shell Oil Company. Others present included Carl Trawick, on behalf of United States Geological Survey; and J. R. White, on behalf of Texaco, Inc.

Evidence in support of the application was introduced by Phillips Petroleum Company, the applicant and Unit Operator of the Ratherford Unit, which embraces as the unit area the following described land in San Juan County, State of Utah, to wit:

TOWNSHIP 41 SOUTH, RANGE 23 EAST, SLPM

Section 1:	All	Sections 12 and 13:	All
Section 2:	E/2	Section 14:	E/2
Section 11:	E/2	Section 24:	All

TOWNSHIP 41 SOUTH, RANGE 24 EAST, SLPM

Section 3:	SW/4	Sections 15	All
Section 4:	S/2	through 21:	SW/4 and
Sections 5 through 9:	All	Section 22:	E/2 of the
Section 10:	S/2 and NE/4		SW/4
	and W/2 of NE/4	Section 23:	NE/4 and
Section 11:	S/2 of SW/4		E/2 of NE/4
			and W/2 of SW/4
Section 14:	E/2	Section 29 and 30:	All
		Section 31:	E/2
		Section 32:	E/2

R. R. Robison on behalf of Shell Oil Company stated that (as contemplated by paragraph No. 5 of the Commission's order of February 24, 1959, in Cause No. 17 authorizing the drilling of certain test wells) Shell would submit to the Commission, as arbiter, the question as between Shell and Superior Oil Company

of the monetary value, if any, to be attributed to three test wells drilled within the Ratherford Unit area pursuant to said order of February 24, 1959.

No objection to the granting of the application was filed or expressed. The Shell Oil Company, Texaco, Inc. and Continental Oil Company expressed their support of the application of Phillips Petroleum Company.

FINDINGS OF FACT

The Commission finds that:

1. The unitized operation of the Ratherford Unit Area will enable pressure maintenance operations to be initiated and permit such Area to be operated in a manner which will prevent waste, protect correlative rights and result in greater ultimate recovery of oil and gas.
2. The Ratherford Unit Agreement has been approved by the various signatory parties as fair, reasonable and acceptable.
3. The water injection pressure maintenance program proposed by the applicant appears to be proper and designed to result in the greatest economic recovery of oil and gas to the end that all concerned, including the general public, may realize and enjoy the greatest good from the oil and gas resources of the unitized lands.

ORDER

THEREFORE, IT IS ORDERED BY THE COMMISSION, and subject to its continuing jurisdiction, that:

1. Unit operation of the Ratherford Unit Area under the Ratherford Unit Agreement is approved.
2. The plan and program of water injection pressure maintenance operations proposed by applicant in its application filed herein should be and the same is hereby approved and the unit operator is authorized to proceed with and under such plan and program as soon as the Ratherford Unit Agreement becomes effective and operative.
3. If, at any time or from time to time, it appears necessary or desirable to the unit operator to alter or modify the hereby approved plan of pressure maintenance, any such alteration or modification shall be submitted for

and shall be subject to approval by the Commission or its delegated representative, which approval may be given without notice or hearing, unless otherwise ordered or directed by the Commission.

Dated this 13th day of September, 1961.


THE OIL AND GAS CONSERVATION
COMMISSION OF THE STATE OF UTAH


Edward W. Clyde, Commissioner, presiding


C. R. Henderson, Chairman


H. V. Hatch, Commissioner


C. S. Thomson, Commissioner


Walter G. Mann, Commissioner

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:	
1-DEC/87-93	
2-DEC/88-93	
3-VLC	
4-RJF	
5-JEF	
6-RL	

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-1-93)

TO (new operator) <u>M E P N A</u>	FROM (former operator) <u>PHILLIPS PETROLEUM COMPANY</u>
(address) <u>PO DRAWER G</u>	(address) <u>5525 HWY 64 NBU 3004</u>
<u>CORTEZ, CO 81321</u>	<u>FARMINGTON, NM 87401</u>
<u>GLEN COX (915)688-2114</u>	<u>PAT KONKEL</u>
phone <u>(303) 565-2212</u>	phone <u>(505) 599-3452</u>
account no. <u>N7370</u>	account no. <u>N0772(A)</u>

Well(s) (attach additional page if needed): ***RATHERFORD UNIT (NAVAJO)**

Name: **SEE ATTACHED**	API: <u>43-037-16414</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 8-20-93) (6/93 Prod. Rpt. 8-16-93)
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 8-31-93) (Prod. 9-14-93)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____
- Sec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (O&G wells 10-6-93) (wiw's 10-26-93)
- Sec 6. Cardex file has been updated for each well listed above. (O&G wells 10-6-93) (wiw's 10-26-93)
- Sec 7. Well file labels have been updated for each well listed above. (O&G wells 10-6-93) (wiw's 10-26-93)
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-6-93)
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- ✓ 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- ✓ 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- N/A 2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

1. All attachments to this form have been microfilmed. Date: 11-17 1993.

FILING

- ✓ 1. Copies of all attachments to this form have been filed in each well file.
- ✓ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

931006 BIA/Bhm Approved 7-9-93.

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ **Well File** _____

☐ **Suspense**
(Return Date) _____
(To - Initials) _____

☒ **Other**
OPER NM CHG _____

(Location) Sec _____ Twp _____ Rng _____
(API No.) _____

1. Date of Phone Call: 8-3-95 Time: _____

2. DOGM Employee (name) L. CORDOVA (Initiated Call ☐)
Talked to:

Name R. J. FIRTH (Initiated Call ☒) - Phone No. () _____
of (Company/Organization) _____

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation: _____

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING
NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT
THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.

*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED
MAY 16 1986

DIVISION OF
OIL, GAS & MINING

Attn: R. J. Firth
Associate Director

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



CNE/rd
CNE8661

R. D. Baker
Environmental Regulatory Manager

STATE OF UTAH
INVENTORY OF INJECTION WELLS

OPERATOR	API NO.	WELL	TNS	RGE	SE	WELLTYPE	INDIAN COUNT
*****	*****	*****	***	***	**	*****	*****
✓MEPNA (MOBIL	43-037-15722	16W23	41S	24E	16	INJW	Y
✓MEPNA (MOBIL	43-037-16414	16W21	41S	24E	16	INJW	Y
✓MEPNA (MOBIL	43-037-16416	17W21	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15726	17W12	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15731	17W41	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-16417	17W43	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15728	17W23	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15730	17W34	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15729	17W32	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-15727	17W14	41S	24E	17	INJW	Y
✓MEPNA (MOBIL	43-037-31153	18W12	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15737	18W34	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15736	18W32	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-30244	18W23	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15735	18W14	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-16418	18W21	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15738	18W41	41S	24E	18	INJW	Y
✓MEPNA (MOBIL	43-037-15741	19W21	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-15742	19W23	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-15745	19W41	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-16420	19W43	41S	24E	19	INJW	Y
✓MEPNA (MOBIL	43-037-15748	20W23	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-15751	20W41	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-16423	20W21	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-16424	20W43	41S	24E	20	INJW	Y
✓MEPNA (MOBIL	43-037-16427	21W43	41S	24E	21	INJW	Y
✓MEPNA (MOBIL	43-037-16425	21W21	41S	24E	21	INJW	Y
✓MEPNA (MOBIL	43-037-16431	28W21	41S	24E	28	INJI	Y
✓MEPNA (MOBIL	43-037-16433	29W41	41S	24E	29	INJW	Y
✓MEPNA (MOBIL	43-037-16432	29W21	41S	24E	29	INJW	Y
✓MEPNA (MOBIL	43-037-15338	29W23	41S	24E	29	INJI	Y
✓MEPNA (MOBIL	43-037-16434	29W43	41S	24E	29	INJW	Y
✓MEPNA (MOBIL	43-037-15343	30-41	41S	24E	30	INJW	Y
✓MEPNA (MOBIL	43-037-16435	30W21	41S	24E	30	INJI	--

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☒ Operator Name Change Only

1-LEC	7-PL
2-LWP	8-SJ
3-DE	9-FILE
4-VLC	
5-RJP	
6-LWP	

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 8-2-95)

TO (new operator) MOBIL EXPLOR & PROD
 (address) C/O MOBIL OIL CORP
PO DRAWER G
CORTEZ CO 81321
 phone (303) 564-5212
 account no. N7370

FROM (former operator) M E P N A
 (address) C/O MOBIL OIL CORP
PO DRAWER G
CORTEZ CO 81321
 phone (303) 564-5212
 account no. N7370

Well(s) (attach additional page if needed):

Name: <u>** SEE ATTACHED **</u>	API: <u>037-16414</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)
- LWP 6. Cardex file has been updated for each well listed above. 8-21-95
- WJ 7. Well file labels have been updated for each well listed above. 9-28-95
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Lee 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) ** No Fee Lease Wells at this time!*

- N/A Lee 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- ___ 2. A copy of this form has been placed in the new and former operators' bond files.
- ___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19__.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A UTS 8/5/95 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19__, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: October 4 1995.

FILING

- ___ 1. Copies of all attachments to this form have been filed in each well file.
- ___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950803 UIC F5/Not necessary!

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.

14-20-603-355

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

RATHERFORD UNIT

8. Well Name and No.

RATHERFORD

16-W-21

9. API Well No.

43-037-16414

10. Field and Pool, or exploratory Area

GREATER ANETH

11. County or Parish, State

SAN JUAN

UT

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

MOBIL PRODUCING TX & NM INC.*

*MOBIL EXPLORATION & PRODUCING US INC. AS AGENT FOR MPTM

3. Address and Telephone No.

P.O. Box 633, Midland TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC. 16, T41S, R24E

NE/NW 660' FNL & 1880' FWL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

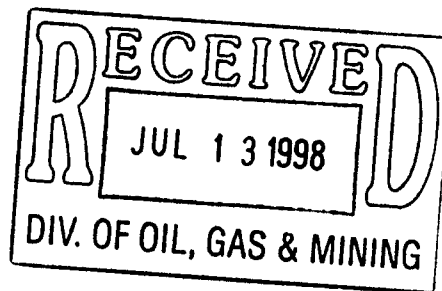
TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other MIT
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

ATTACHED MIT & CHART / SCHEDULED TEST



14. I hereby certify that the foregoing is true and correct

Signed

Shirley Houchins

Title

SHIRLEY HOUCHINS/ENV & REG TECH

Date

7-8-98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

ANNULAR PRESSURE TEST (Mechanical Integrity Test)

Operator MOBIL Date of Test 6-24-98
 Well Name KATHERFORD UNIT WELL #16W-21 EPA Permit No. _____
 Location SEC 10 T41S R24E Tribal Lease No. 14 20603355
 State and County SAN JUAN COUNTY, UTAH

Continuous Recorder? YES ☒ NO ☐ Pressure Gauge? YES ☒ NO ☐
 Bradenhead Opened? YES ☒ NO ☐ Fluid Flow? YES ☐ NO ☒

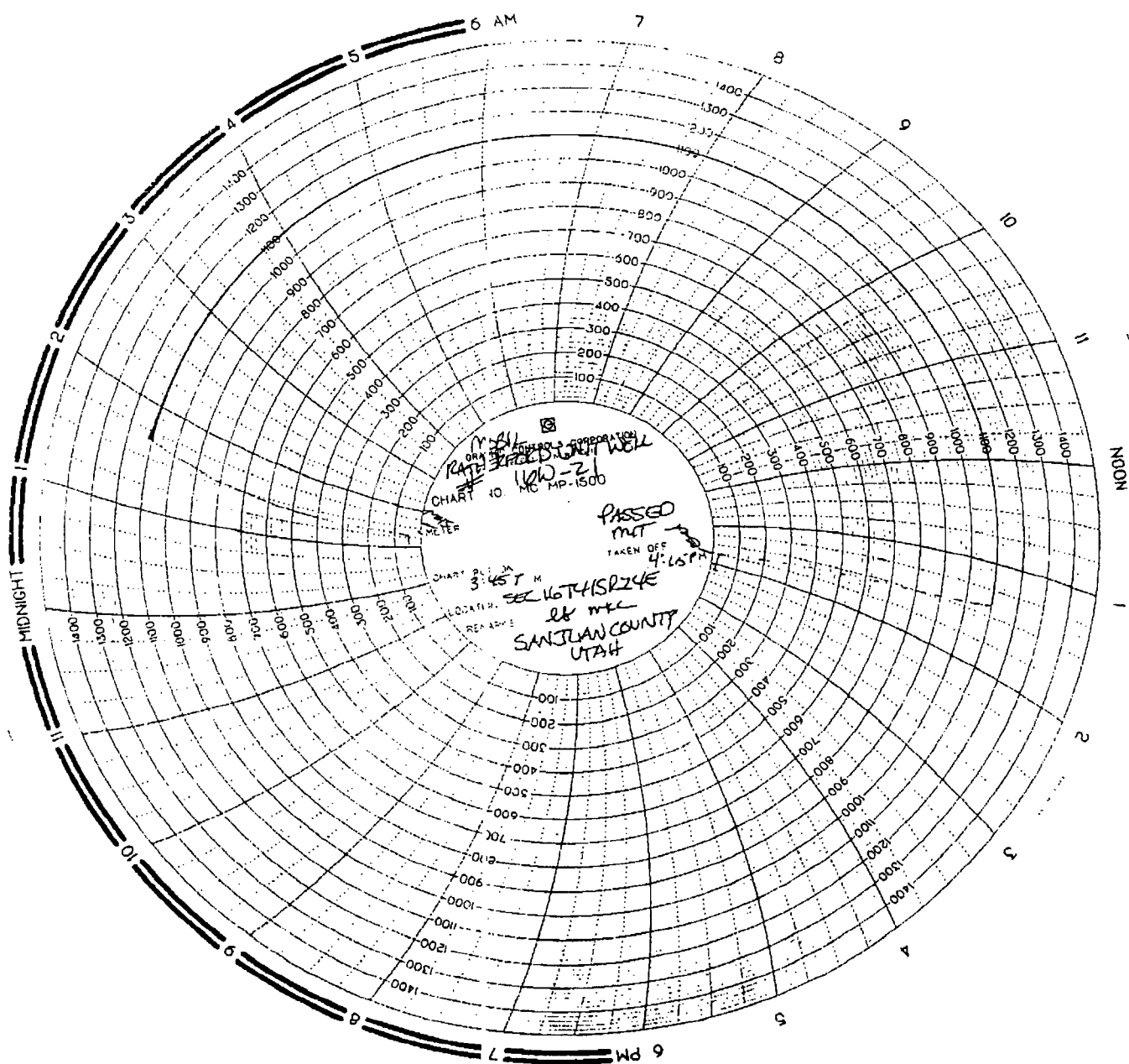
<u>TIME</u>	<u>ANNULUS PRESSURE, psi</u>	<u>TUBING PRESSURE, psi</u>
3:45 PM	1120	2150 mxc
3:50 PM	1100	2150
3:55 PM	1100	2150
4:00 PM	1100	2150
4:05 PM	1100	2150
4:10 PM	1100	2150
4:15 PM	1100	2150

MAX. INJECTION PRESSURE: 3000 For this well, at Mobil plant at this hm 1000 mxc PSI
 MAX. ALLOWABLE PRESSURE CHANGE: 56.0 PSI (TEST PRESSURE X 0.05)
 REMARKS: Passed? Failed? If failed, cease injection until well passes MIT (40CFR§144.21(c)(6)).

PASSED MIT

Lorenzo R. Benally Lorenzo R. Benally
 COMPANY REPRESENTATIVE: (Print and Sign)
Melvin A. Clark Melvin A. Clark
 INSPECTOR: (Print and Sign)

6-24-98
 DATE
6-24-98
 DATE



ExxonMobil Production Comp

U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

June 27, 2001

ExxonMobil
Production

Mr. Jim Thompson
State of Utah, Division of Oil, Gas and Mining
1549 West North Temple
Suite 1210
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

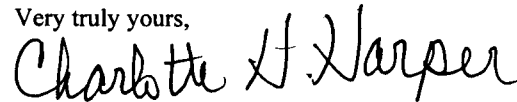
Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,



Charlotte H. Harper
Permitting Supervisor

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

RECEIVED

JUN 29 2001
DIVISION OF
OIL & GAS MINING



IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
~~XXXXXXXXXXXXXX~~
 Navajo Area Office
NAVAJO REGION

P.O. Box 1060
 Gallup, New Mexico 87305-1060

AUG 30 2001

RRES/543

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor
 Exxon Mobil Production Company
 U. S. West
 P. O. Box 4358
 Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of \$75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

DEMMI DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures ✓
 Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

MINERAL RESOURCES	
ADM 1	<i>DB/MC</i>
NATV AM MIN COORD _____	
SOLID MIN TEAM _____	
PETRO MIN TEAM <i>2</i> _____	
O & G INSPECT TEAM _____	
ALL TEAM LEADERS _____	
LAND RESOURCES _____	
ENVIRONMENT _____	
FILES _____	

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

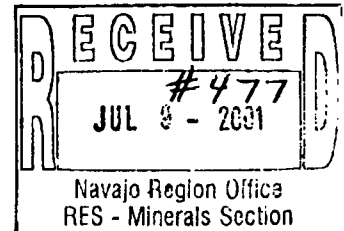
7/12/2001
543
File

June 27, 2001

ExxonMobil
Production

Certified Mail
Return Receipt Requested

Ms. Genni Denetsone
United States Department of the Interior
Bureau of Indian Affairs, Navajo Region
Real Estate Services
P. O. Box 1060
Gallup, New Mexico 87305-1060
Mail Code 543



Change of Name –
Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of \$75/-. Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

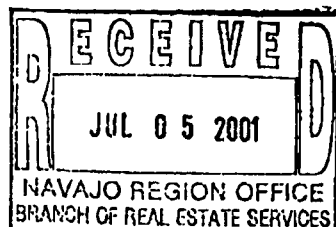
If you have any questions, please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

Attachments



ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Jasi

Bureau of Indian Affairs
Navajo Region Office
Attn: RRES - Mineral and Mining Section
P.O. Box 1060
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

OFFICERS

President	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Vice President	<u>K.T. Koonce</u>	Address <u>800 Bell Street Houston, TX 77002</u>
Secretary	<u>F.L. Reid</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Treasure	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

DIRECTORS

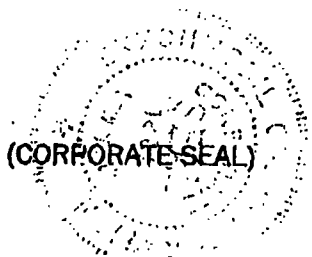
Name	<u>D.D. Humphreys</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>P.A. Hanson</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>T.P. Townsend</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>B.A. Maher</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>
Name	<u>F.A. Risch</u>	Address <u>5959 Las Colinas Blvd. Irving, TX 75039</u>

Sincerely,



Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is true and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800) 927-9800, whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218



Signature

AGENT AND ATTORNEY IN FACT

Title

SAL

CERTIFICATION

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

CHANGE OF COMPANY NAME

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

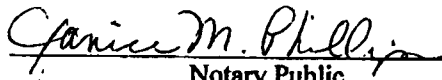
FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

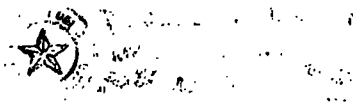
WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.


Assistant Secretary

COUNTY OF DALLAS)
STATE OF TEXAS)
UNITED STATES OF AMERICA)

Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.


Notary Public



LISTING OF LEASES OF MOBIL OIL CORPORATION**Lease Number**

- 1) 14-20-0603-6504
- 2) 14-20-0603-6505
- 3) 14-20-0603-6506
- 4) 14-20-0603-6508
- 5) 14-20-0603-6509
- 6) 14-20-0603-6510
- 7) 14-20-0603-7171
- 8) 14-20-0603-7172A
- 9) 14-20-600-3530
- 10) 14-20-603-359
- 11) 14-20-603-368
- 12) 14-20-603-370
- 13) 14-20-603-370A
- 14) 14-20-603-372
- 15) 14-20-603-372A
- 16) 14-20-603-4495
- 17) 14-20-603-5447
- 18) 14-20-603-5448
- 19) 14-20-603-5449
- 20) 14-20-603-5450
- 21) 14-20-603-5451

6/1/01

CHUBB GROUP OF INSURANCE COMPANIES

1000 West Loop South, Suite 1400, Houston, Texas 77027-3331
Telephone: (713) 227-4600 • Facsimile: (713) 227-4750

NW Bond

FEDERAL INSURANCE COMPANY RIDER
to be attached to and form a part of

BOND NO 8027 31 97

wherein

Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is
named as Principal and

FEDERAL INSURANCE COMPANY AS SURETY,

in favor of United States of America, Department of the Interior
Bureau of Indian Affairs

in the amount of \$150,000.00

bond date: 11/01/65

IT IS HEREBY UNDERSTOOD AND AGREED THAT effective June 1, 2001
the name of the Principal is changed

FROM: Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.

TO : ExxonMobil Oil Corporation

All other terms and conditions of this Bond are unchanged.

Signed, sealed and dated this 12th of June, 2001.

ExxonMobil Oil Corporation

By: 

FEDERAL INSURANCE COMPANY

By: 

Mary Pierson, Attorney-in-fact

**Chubb
Surety****POWER
OF
ATTORNEY****Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company****Attn.: Surety Department
15 Mountain View Road
Warren, NJ 07059**

Know All by These Presents, That **FEDERAL INSURANCE COMPANY**, an Indiana corporation, **VIGILANT INSURANCE COMPANY**, a New York corporation, and **PACIFIC INDEMNITY COMPANY**, a Wisconsin corporation, do each hereby constitute and appoint **R.F. Bobo**, Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas-----

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.


Kenneth C. Wendel, Assistant Secretary


Frank E. Robertson, Vice President

STATE OF NEW JERSEY } ss.
County of Somerset

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Companies in the presence of the Notary Public.



Notary Public State of New Jersey
No. 2231647
Commission Expires Oct 28, 2004


Notary Public

Extract from the By-Laws of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY**:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of **FEDERAL INSURANCE COMPANY**, **VIGILANT INSURANCE COMPANY**, and **PACIFIC INDEMNITY COMPANY** (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001




Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY
Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

CSC

5184334741

06/01 '01 08:46 NO.410 03/05

CSC

06/01 '01 09:06 NO.135 02/04

F010601000187

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
MOBIL OIL CORPORATION

CSC 45

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

FIRST: That the name of the corporation is MOBIL OIL CORPORATION and that said corporation was incorporated under the name of Standard Oil Company of New York.

SECOND: That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

THIRD: That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st The corporate name of said Company shall be,
ExxonMobil Oil Corporation",

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

CSC
CSC

5184334741

06/01 '01 08:47 NO.410 04/05
06/01 '01 09:00 NO.133 03/04

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.



F. A. Risch, President

STATE OF TEXAS)
COUNTY OF DALLAS)

F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.



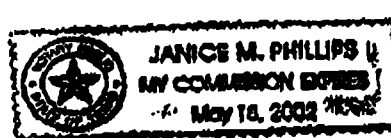
F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]



NOTARY PUBLIC, STATE OF TEXAS



=> CSC

TEL=5184334741

06/01'01 08:19

CSC
CSC

5184334741

06/01 '01 09:01 NO. 411 02/02
06/01 '01 09:06 NO. 152 04/04
F010601000187**CSC 45****CERTIFICATE OF AMENDMENT****OF****MOBIL OIL CORPORATION**

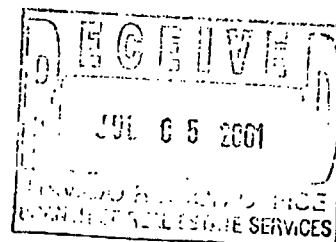
Under Section 805 of the Business Corporation Law

*SAC***STATE OF NEW YORK
DEPARTMENT OF STATE**Filed by: EXXONMOBIL CORPORATION
(Name)

FILED JUN 01 2001

5959 Las Colinas Blvd.
(Mailing address)

TAX \$

BY: *SAC*Irving, TX 75039-2298
(City, State and Zip code)*ny Albany**Cust Ref # 165578 MPJ***010601000195**

=> CSC

TEL=5184334741

06/01'01 08:19

State of New York }
Department of State } ss:

I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.

Witness my hand and seal of the Department of State on **JUN 01 2001**



Special Deputy Secretary of State

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: **06-01-2001**

FROM: (Old Operator):	TO: (New Operator):
MOBIL EXPLORATION & PRODUCTION	EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"	Address: U S WEST P O BOX 4358
CORTEZ, CO 81321	HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212	Phone: 1-(713)-431-1010
Account No. N7370	Account No. N1855

CA No.

Unit: **RATHERFORD****WELL(S)**

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO A-9 (RATHERFORD 16W23)	16-41S-24E	43-037-15722	99990	INDIAN	WI	A
NAVAJO A-12 (RATHERFORD 16W21)	16-41S-24E	43-037-16414	99990	INDIAN	WI	A
RATHERFORD 16W43	16-41S-24E	43-037-16415	99990	INDIAN	WI	A
RATHERFORD 17-W-12	17-41S-24E	43-037-15726	6280	INDIAN	WI	A
17-14	17-41S-24E	43-037-15727	6280	INDIAN	WI	A
RATHERFORD 17-W-23	17-41S-24E	43-037-15728	6280	INDIAN	WI	A
17-32	17-41S-24E	43-037-15729	6280	INDIAN	WI	A
17-34	17-41S-24E	43-037-15730	6280	INDIAN	WI	A
17-41	17-41S-24E	43-037-15731	6280	INDIAN	WI	I
RATHERFORD 17-W-21	17-41S-24E	43-037-16416	99990	INDIAN	WI	A
RATHERFORD 17W43	17-41S-24E	43-037-16417	99990	INDIAN	WI	A
RATHERFORD 18-W-14	18-41S-24E	43-037-15735	6280	INDIAN	WI	A
18-W-32	18-41S-24E	43-037-15736	6280	INDIAN	WI	A
RATHERFORD 18-W-34	18-41S-24E	43-037-15737	6280	INDIAN	WI	A
DESERT A-4 (RATHERFORD 18W41)	18-41S-24E	43-037-15738	99990	INDIAN	WI	A
DESERT A-3 (RATHERFORD 18-W-21)	18-41S-24E	43-037-16418	99990	INDIAN	WI	A
18-23	18-41S-24E	43-037-30244	6280	INDIAN	WI	A
RATHERFORD U 18-W-12 (SDTRK)	18-41S-24E	43-037-31153	6280	INDIAN	WI	A
RATHERFORD UNIT 18-W-43B	18-41S-24E	43-037-31718	6280	INDIAN	WI	A
RATHERFORD U 19-W-12	19-41S-24E	43-037-15739	6280	INDIAN	WI	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
5. If **NO**, the operator was contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

NOTE: EPA ISSUES UIC PERMIT

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 04/11/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 04/11/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 80273197

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-355
2. NAME OF OPERATOR: ExxonMobil Oil Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribal
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY Houston STATE TX ZIP 77210-4358		7. UNIT or CA AGREEMENT NAME: Ratherford Unit
4. LOCATION OF WELL FOOTAGES AT SURFACE: 660' FNL & 1880' FWL		8. WELL NAME and NUMBER: Ratherford Unit 16W21
PHONE NUMBER: (281) 654-1936		9. API NUMBER: 4303716414
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 16 41S 24E		10. FIELD AND POOL, OR WILDCAT: Greater Aneth
COUNTY: San Juan		STATE: UTAH

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>8/1/2004</u>	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Based on analysis and recommendations from Schlumberger, stimulate with 1500 gal. 15% HCl acid and benzoic acid flakes for diverter as follows:

- a) RU Schlumberger acidizing equipment. Continually roll tanks to keep inhibitor in solution.
- b) Check volumes and composition of all fluids against job design and service company ticket.
- c) Install pressure gauges on both the tubing and the casing and monitor pressure throughout the entire job.
- d) Hold safety meeting to discuss job objectives and hazards. Complete JSA/JSC.
- e) RU pump truck to backside and keep 500 psi on the casing throughout the job.
- f) Stake and chain all treating lines and test to 4000 psi.
- g) Maximum surface treating pressure while pumping is 3000 psi. Watch backside for communication!
- h) Pump at the maximum rate that is allowed by the maximum treating pressure.
- i) Pickle tubing with 5 bbls acid. (Since well will not flow back, do not shut down to try and recover the load.)
- j) Continue stimulation by pumping 5 bbls acid, followed by a 5 lb slug of benzoic acid flakes. Repeat every 5 bbls until all acid (36 bbls total) is pumped away.
- k) Flush tubing and over displace with a full truckload of 2% KCl (+/- 120 bbls).
- l) Record ISIP and 5-10-15 minute shut-in pressures.
- m) RDMO Schlumberger.

COPY SENT TO OPERATOR
Date: 7-16-04
Initials: CHD

NAME (PLEASE PRINT) Tiffany Stebbins TITLE Staff Office Assistant
SIGNATURE Tiffany Stebbins DATE 7/1/2004

(This space for State use only) **Accepted by the
Utah Division of
Oil, Gas and Mining**

Federal Approval Of This
Action Is Necessary

**RECEIVED
JUL 06 2004**

(5/2000)

Date: 7/15/04
By: [Signature]

(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINING

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ

2. CDW

X Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

6/1/2006

FROM: (Old Operator):
 N1855-ExxonMobil Oil Corporation
 PO Box 4358
 Houston, TX 77210-4358
 Phone: 1 (281) 654-1936

TO: (New Operator):
 N2700-Resolute Natural Resources Company
 1675 Broadway, Suite 1950
 Denver, CO 80202
 Phone: 1 (303) 534-4600

CA No.

Unit:

RATHERFORD (UIC)

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/7/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
5. If **NO**, the operator was contacted on: _____
- 6a. (R649-9-2) Waste Management Plan has been received on: requested
- 6b. Inspections of LA PA state/fee well sites complete on: n/a
- 6c. Reports current for Production/Disposition & Sundries on: ok
7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
8. **Federal and Indian Units:**
 The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):**
 The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 6/22/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/22/2006
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: 6/22/2006
6. **Receipt of Acceptance of Drilling Procedures for APD/New** on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a
2. Indian well(s) covered by Bond Number: PA002769
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a
 The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See attached list		API Number Attached
Location of Well		Field or Unit Name Ratherford Unit
Footage: See attached list	County: San Juan	Lease Designation and Number See attached list
QQ, Section, Township, Range:	State: UTAH	

EFFECTIVE DATE OF TRANSFER: 6/1/2006

CURRENT OPERATOR

Company: Exxon Mobil Oil Corporation Name: _____
Address: PO Box 4358 Signature: _____
city Houston state TX zip 77210-4358 Title: _____
Phone: (281) 654-1936 Date: _____
Comments: Exxon Mobil has submitted a separate, signed copy of UIC Form 5

NEW OPERATOR

Company: Resolute Natural Resources Company Name: Dwight E Mallory
Address: 1675 Broadway, Suite 1950 Signature: _____
city Denver state CO zip 80202 Title: Regulatory Coordinator
Phone: (303) 534-4600 Date: 4/20/2006
Comments: A list of affected UIC wells is attached.
New bond numbers for these wells are:
BIA Bond # PA002769 and US EPA Bond # B001252

(This space for State use only)

Transfer approved by: _____
Title: Field Operations Manager

Approval Date: 6/12/06

Comments:

RECEIVED
APR 24 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: <u>See attached list</u>
2. NAME OF OPERATOR: <u>Resolute Natural Resources Company</u> <u>N2700</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Navajo Tribe</u>
3. ADDRESS OF OPERATOR: <u>1675 Broadway, Suite 1950</u> CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		7. UNIT or CA AGREEMENT NAME: <u>Ratherford Unit</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>See attached list</u>		8. WELL NAME and NUMBER: <u>See attached list</u>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u> </u>		9. API NUMBER: <u>Attached</u>
COUNTY: <u>San Juan</u>		10. FIELD AND POOL, OR WILDCAT: <u>Greater Aneth</u>
STATE: <u>UTAH</u>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the Ratherford Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the Ratherford Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT) <u>Dwight E Mallory</u>	TITLE <u>Regulatory Coordinator</u>
SIGNATURE <u>[Signature]</u>	DATE <u>4/20/2006</u>

(This space for State use only)

APPROVED 6127106

Earlene Russell

Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED

APR 24 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Injection</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: ExxonMobil Oil Corporation <u>N1855</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <u>Ship Rock</u>
3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY <u>Houston</u> STATE <u>TX</u> ZIP <u>77210-4358</u>		7. UNIT or CA AGREEMENT NAME: <u>UTU68931A</u>
PHONE NUMBER: <u>(281) 654-1936</u>		8. WELL NAME and NUMBER: <u>Ratherford</u>
4. LOCATION OF WELL FOOTAGES AT SURFACE: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: <u>attached</u>
		10. FIELD AND POOL, OR WILDCAT: <u>Aneth</u>

COUNTY: San Juan

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/1/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, Ratherford lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of injection wells included in the transfer.

NAME (PLEASE PRINT) Laurie Kilbride

TITLE Permitting Supervisor

SIGNATURE

DATE 4/19/2006

(This space for State use only)

APPROVED 6/27/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician
(See Instructions on Reverse Side)

RECEIVED
APR 21 2006

GREATER ANETH FIELD UIC WELL LIST
Ratherford lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location							
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot	
RATHERFORD UNIT	1W24	430371583900S1	Shut-in	14-20-603-246A	NE	SE	1	41S	23E	0651FSL	3300FEL	
RATHERFORD UNIT	2W44	430371638600S1	Active	14-20-603-246A	SE	SE	2	41S	23E	0810FSL	0510FEL	
RATHERFORD UNIT	11W42	430371584100S1	Active	14-20-603-246A	SE	NE	11	41S	23E	3290FSL	4617FWL	
RATHERFORD UNIT	11W44	430371584200S1	Shut-in	14-20-603-246A	SE	SE	11	41S	23E	0660FSL	0558FEL	
RATHERFORD UNIT	12W11	430371584300S1	Active	14-20-603-246A	NW	NW	12	41S	23E	0678FNL	4620FEL	
RATHERFORD UNIT	12W13	430371640400S1	Active	14-20-603-246A	NW	SW	12	41S	23E	1980FSL	4620FEL	
RATHERFORD UNIT	12W22	430371584501S1	Active	14-20-603-246A	SE	NW	12	41S	23E	1920FNL	2080FWL	
RATHERFORD UNIT	12W24	430373115101S1	Active	14-20-603-246A	SE	SW	12	41S	23E	0775FSL	1980FWL	
RATHERFORD UNIT	12W31	430371584700S1	Active	14-20-603-246A	NW	NE	12	41S	23E	0661FNL	1981FEL	
RATHERFORD UNIT	12W33	430371584800S1	Active	14-20-603-246A	NW	SE	12	41S	23E	1958FSL	3300FEL	
RATHERFORD UNIT	12W42	430371585000S1	Active	14-20-603-246A	SE	NE	12	41S	23E	3275FSL	0662FEL	
RATHERFORD UNIT	12W44A	430373154300S1	Shut-in	14-20-603-246A	SE	SE	12	41S	23E	0772FSL	0807FEL	
RATHERFORD UNIT	13W11	430373115201S1	Active	14-20-603-247A	NW	NW	13	41S	23E	0500FNL	0660FWL	
RATHERFORD UNIT	13W13	430371585100S1	Active	14-20-603-247A	NW	SW	13	41S	23E	1980FSL	4620FEL	
RATHERFORD UNIT	13W22	430371585200S1	Active	14-20-603-247A	SE	NW	13	41S	23E	1988FNL	3300FEL	
RATHERFORD UNIT	13W24	430371585300S1	Active	14-20-603-247A	SE	SW	13	41S	23E	0660FSL	3300FEL	
RATHERFORD UNIT	13W33	430371585501S1	Active	14-20-603-247A	NW	SE	13	41S	23E	1970FSL	1979FEL	
RATHERFORD UNIT	13W42	430371585700S1	Shut-in	14-20-603-247A	SE	NE	13	41S	23E	2139FNL	0585FEL	
RATHERFORD UNIT	13W44	430371640700S1	Active	14-20-603-247A	SE	SE	13	41S	23E	0653FSL	0659FEL	
RATHERFORD UNIT	14-31	430373171700S1	Active	14-20-603-247A	NW	NE	14	41S	23E	0754FNL	1604FEL	
RATHERFORD UNIT	14W42	430371586001S1	Active	14-20-603-247A	SE	NE	14	41S	23E	1976FNL	653FEL	
RATHERFORD UNIT	24W31	430371586200S1	Shut-in	14-20-603-247A	NW	NE	24	41S	24E	0560FNL	1830FEL	
RATHERFORD UNIT	24W42	430371586300S1	Shut-in	14-20-603-247A	SE	NE	24	41S	24E	1980FNL	0660FEL	
RATHERFORD UNIT	17W12	430371572601S1	Active	14-20-603-353	SW	NW	17	41S	24E	1980FNL	510FWL	
RATHERFORD UNIT	17W14	430371572700S1	Active	14-20-603-353	SW	SW	17	41S	24E	0610FSL	0510FWL	
RATHERFORD UNIT	17W21	430371641601S1	Active	14-20-603-353	NE	NW	17	41S	24E	0510FNL	1830FWL	
RATHERFORD UNIT	17W23	430371572801S1	Active	14-20-603-353	NE	SW	17	41S	24E	1880FSL	1980FWL	
RATHERFORD UNIT	17W32	430371572900S1	TA'd	14-20-603-353	SW	NE	17	41S	24E	1830FNL	2030FEL	
RATHERFORD UNIT	17W34	430371573000S1	Active	14-20-603-353	SW	SE	17	41S	24E	0560FSL	1880FEL	
RATHERFORD UNIT	17W41	430371573100S1	Shut-in	14-20-603-353	NE	NE	17	41S	24E	0610FNL	0510FEL	
RATHERFORD UNIT	17W43	430371641701S1	Active	14-20-603-353	NE	SE	17	41S	24E	1980FSL	0660FEL	
RATHERFORD UNIT	18-43B	430373171801S1	Active	14-20-603-353	NE	SE	18	41S	24E	2023FSL	0651FEL	
RATHERFORD UNIT	18W12	430373115301S1	Active	14-20-603-353	SW	NW	18	41S	24E	1980FNL	560FWL	
RATHERFORD UNIT	18W14	430371573501S1	Active	14-20-603-353	SW	SW	18	41S	24E	0810FSL	0600FWL	
RATHERFORD UNIT	18W21	430371641801S1	Active	14-20-603-353	NE	NW	18	41S	24E	660FNL	1882FWL	
RATHERFORD UNIT	18W23	430373024400S1	Shut-in	14-20-603-353	NE	SW	18	41S	24E	2385FSL	2040FWL	
RATHERFORD UNIT	18W32	430371573601S1	Active	14-20-603-353	SW	NE	18	41S	24E	2140FNL	1830FEL	
RATHERFORD UNIT	18W34	430371573701S1	Active	14-20-603-353	SW	SE	18	41S	24E	780FSL	1860FEL	
RATHERFORD UNIT	18W41	430371573800S1	TA'd	14-20-603-353	NE	NE	18	41S	24E	0660FNL	0660FEL	
RATHERFORD UNIT	19-12	430371573901S1	Active	14-20-603-353	SW	NW	19	41S	24E	1980FNL	0600FWL	
RATHERFORD UNIT	19-32	430371574301S1	Active	14-20-603-353	SW	NE	19	41S	24E	2717FNL	2802FEL	
RATHERFORD UNIT	19-34	430371574401S1	Active	14-20-603-353	SW	SE	19	41S	24E	0660FSL	1980FEL	
RATHERFORD UNIT	19W21	430371574100S1	Shut-in	14-20-603-353	NE	NW	19	41S	24E	0660FNL	1860FWL	
RATHERFORD UNIT	19W23	430371574200S1	Shut-in	14-20-603-353	NE	SW	19	41S	24E	2080FSL	1860FWL	
RATHERFORD UNIT	19W43	430371642000S1	Shut-in	14-20-603-353	NE	SE	19	41S	24E	1980FSL	0760FEL	
RATHERFORD UNIT	20-12	430371574601S1	Active	14-20-603-353	SW	NW	20	41S	24E	0709FNL	0748FEL	
RATHERFORD UNIT	20-14	430371574701S1	Active	14-20-603-353	SW	SW	20	41S	24E	0660FSL	0660FWL	
RATHERFORD UNIT	20-32	430371574901S1	Active	14-20-603-353	SW	NE	20	41S	24E	0037FNL	0035FWL	
RATHERFORD UNIT	20-34	430371575001S1	Active	14-20-603-353	SW	SE	20	41S	24E	0774FNL	0617FWL	
RATHERFORD UNIT	20-67	430373159000S1	Active	14-20-603-353	NE	SW	20	41S	24E	2629FSL	1412FWL	
RATHERFORD UNIT	20W21	430371642300S1	Active	14-20-603-353	NE	NW	20	41S	24E	0660FNL	1880FWL	
RATHERFORD UNIT	20W23	430371574800S1	Active	14-20-603-353	NW	SW	20	41S	24E	2080FSL	2120FWL	
RATHERFORD UNIT	20W41	430371575100S1	Active	14-20-603-353	NE	NE	20	41S	24E	0660FNL	0660FEL	
RATHERFORD UNIT	20W43	430371642400S1	TA'd	14-20-603-353	NE	SE	20	41S	24E	2070FSL	0810FEL	
RATHERFORD UNIT	16W12	430371572000S1	Active	14-20-603-355	SW	NW	16	41S	24E	1880FNL	0660FWL	

GREATER ANETH FIELD UIC WELL LIST
Ratherford lease, San Juan County, Utah

Reg Lease Name	Well ID	API Num	Status	Reg Lease #	Surface Location						
					Qtr 1	Qtr 2	Sec	TN	RNG	NS Foot	EW Foot
RATHERFORD UNIT	16W14	430371572100S1	Shut-in	14-20-603-355	SW	SW	16	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	16W21	430371641400S1	Active	14-20-603-355	NE	NW	16	41S	24E	0660FNL	1880FWL
RATHERFORD UNIT	16W23	430371572201S1	Active	14-20-603-355	NE	SW	16	41S	24E	1980FSL	1980FWL
RATHERFORD UNIT	16W43	430371641501S1	Active	14-20-603-355	NE	SE	16	41S	24E	2140FSL	0820FEL
RATHERFORD UNIT	21-14	430371575301S1	Active	14-20-603-355	SW	SW	21	41S	24E	0660FSL	0460FWL
RATHERFORD UNIT	21-67	430373175301S1	Active	14-20-603-355	NE	SW	21	41S	24E	2560FSL	1325FWL
RATHERFORD UNIT	21W21	430371642501S1	Active	14-20-603-355	NE	NW	21	41S	24E	0660FNL	2030FWL
RATHERFORD UNIT	6W14	430371598400S1	Active	14-20-603-368	NE	SE	6	41S	24E	0660FSL	0660FWL
RATHERFORD UNIT	7W12	430371598500S1	Active	14-20-603-368	NE	SE	7	41S	24E	2140FNL	0585FWL
RATHERFORD UNIT	7W14	430371598600S1	Active	14-20-603-368	NE	SE	7	41S	24E	1065FSL	0660FWL
RATHERFORD UNIT	7W21	430371639400S1	Active	14-20-603-368	NE	NW	7	41S	24E	0710FNL	1820FWL
RATHERFORD UNIT	7W34	430371598900S1	Active	14-20-603-368	SW	SE	7	41S	24E	0710FSL	2003FEL
RATHERFORD UNIT	7W43	430371639500S1	Active	14-20-603-368	NE	SE	7	41S	24E	2110FSL	0660FEL
RATHERFORD UNIT	8W14	430371599200S1	Active	14-20-603-368	SW	NE	8	41S	24E	0745FSL	0575FWL
RATHERFORD UNIT	10W43	430371640300S1	TA'd	14-20-603-4037	NE	SE	10	41S	24E	1980FSL	0550FEL
RATHERFORD UNIT	29-12	430371533701S1	Active	14-20-603-407	SW	NW	29	41S	24E	2870FNL	1422FWL
RATHERFORD UNIT	29-32	430371533901S1	Active	14-20-603-407	SW	NE	29	41S	24E	0694FNL	0685FWL
RATHERFORD UNIT	29W21	430371643200S1	Active	14-20-603-407	NE	NW	29	41S	24E	0667FNL	2122FWL
RATHERFORD UNIT	29W41	430371643300S1	Active	14-20-603-407	NE	NE	29	41S	24E	0557FNL	0591FEL
RATHERFORD UNIT	29W43	430371643400S1	Shut-in	14-20-603-407	NE	SE	29	41S	24E	1980FSL	0660FEL
RATHERFORD UNIT	30W41	430371534300S1	Shut-in	14-20-603-407	NE	NE	30	41S	24E	0660FNL	0660FEL
RATHERFORD UNIT	28-12	430371533601S1	Active	14-20-603-409	SW	SE	28	41S	24E	2121FNL	0623FWL
RATHERFORD UNIT	28W21	430371643100S1	Shut-in	14-20-603-409	NE	NW	28	41S	24E	0660FNL	2022FWL
RATHERFORD UNIT	9W23	430371639800S1	Active	14-20-603-5046	NW	SE	9	41S	24E	1980FSL	1980FWL

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: Resolute Natural Resources Company Operator Account Number: N 2700
Address: 1675 Broadway, Suite 1950
city Denver
state CO zip 80202 Phone Number: (303) 534-4600

Well 1

Navajo A-12 (Ratherford 16W21)

API Number	Well Name	QQ	Sec	Twp	Rng	County
4303716414	Ratherford Unit 16W21	NENW	16	41S	24E	San Juan
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
E	99990	6280			11/7/07	
Comments: The RU 16-21 was converted to from EOR injection to producing oil well following lateral recompletion on 5/1/2007 5/1/2007 PRDX						

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
Comments:						

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
Comments:						

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Dwight Mallory

Name (Please Print)

Signature

E&S Coordinator

Title

11/1/2007

Date

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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: ☒ OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER _____

b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☒ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER _____

2. NAME OF OPERATOR: **Resolute Natural Resources Co.**

3. ADDRESS OF OPERATOR: **1675 Broadway, #1950** CITY **Denver** STATE **CO** ZIP **80202** PHONE NUMBER: **(303) 534-4600**

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **660' FNL and 1880' FWL**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **581' FNL and 1965' FWL, Sec. 16-41S-24E**
AT TOTAL DEPTH: **426' FSL and 110' FWL, Sec. 9-41S-24E, SLM**

5. LEASE DESIGNATION AND SERIAL NUMBER: **Indian 14-20-603-355**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: **Navajo Tribe**

7. UNIT or CA AGREEMENT NAME: **Ratherford Unit**

8. WELL NAME and NUMBER: **Ratherford Unit 16-21**

9. API NUMBER: **4303716414**

10. FIELD AND POOL, OR WILDCAT: **Greater Aneth**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NENW 16 41S 24E S**

12. COUNTY: **San Juan** 13. STATE: **UTAH**

14. DATE SPURRED: **4/15/2007** 15. DATE T.D. REACHED: **4/29/2007** 16. DATE COMPLETED: **5/1/2007** ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL): **RKB**

18. TOTAL DEPTH: MD **8,909** 19. PLUG BACK T.D.: MD **5,486** 20. IF MULTIPLE COMPLETIONS, HOW MANY? * **1** 21. DEPTH BRIDGE MD **5,486** PLUG SET: TVD **5,486**

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each): **Gamma Ray**

23. WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)
WAS DST RUN? NO ☒ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☒ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
4 3/4" OH									

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Desert Creek	5,542	8,909	5,487	5,504				Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

- ☒ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: _____

30. WELL STATUS:

PRO

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DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 5/2007		TEST DATE: 5/8/07		HOURS TESTED: 15 hr		TEST PRODUCTION RATES: →		OIL - BBL: 75	GAS - MCF: 71	WATER - BBL: 132	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS. 100	CSG. PRESS. 60	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:	

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Desert Creek	5,542	8,909			

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT)

Dwight Mallory

TITLE

EH&S Coordinator

SIGNATURE

DATE

11/7/07

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Survey Name: Survey from Data Set 1 relative to grid north

Well Name: RU 16-21

Date/Time: 4/28/2007 4:02

Magnetic Decl.: 11.08

Grid Correction: 0

North Reference: Grid

Section (VS) Ref.: 0.00N (ft), 0.00E (ft), 72.26Azim (deg)

Calculation Method: Minimum Curvature

MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Stat	Build	Turn
ft	deg	deg	ft	ft	ft	ft	deg/100ft		deg/100ft	deg/100ft
5542.4	71.59	85.6	5487	79.4	84.8	104.9	n/a	TieIn	n/a	n/a
5571.3	81.66	88.2	5494	80.9	112.8	132.1	35.92	1	34.9	8.77
5602.4	82.58	84.1	5498	83	143.5	162	13.26	2	2.94	-13.06
5634.1	87.62	80.5	5501	87.2	174.8	193.1	19.53	3	15.89	-11.4
5665.8	89.06	79.9	5502	92.6	205.9	224.4	4.92	4	4.57	-1.83
5697	89.43	79.2	5502	98.3	236.7	255.4	2.55	5	1.19	-2.26
5728.6	87.95	77.7	5503	104.6	267.7	286.8	6.69	6	-4.68	-4.78
5760.1	88.09	76.9	5504	111.5	298.3	318.1	2.54	7	0.43	-2.5
5791.8	92.92	75.8	5504	119	329.1	349.7	15.69	8	15.28	-3.56
5822.8	90.87	74.9	5503	126.9	359.1	380.7	7.11	9	-6.59	-2.66
5854.5	91.01	75.3	5502	135	389.7	412.3	1.13	10	0.43	1.05
5886	93.07	74.9	5501	143.1	420.1	443.8	6.66	11	6.54	-1.25
5916.8	92.45	74.4	5500	151.3	449.8	474.5	2.45	12	-2	-1.43
5948.7	92.43	75	5498	159.7	480.5	506.3	1.62	13	-0.08	1.61
5980.1	94.44	74.3	5497	168	510.8	537.7	6.77	14	6.39	-2.25
6011.6	92.72	72	5495	177.1	540.8	569.1	8.91	15	-5.44	-7.06
6043	90.44	70.6	5494	187.2	570.5	600.4	8.61	16	-7.28	-4.61
6073.1	89.19	70.7	5494	197.2	599	630.6	4.15	17	-4.13	0.35
6103.9	88.35	70.4	5495	207.4	628	661.3	2.89	18	-2.73	-0.97
6135.4	86.74	69.9	5496	218.1	657.6	692.8	5.39	19	-5.11	-1.7
6166.9	87.61	71.3	5497	228.6	687.3	724.3	5.28	20	2.78	4.49
6198.1	91.99	73.3	5498	238.1	717	755.4	15.43	21	14.02	6.44
6229.7	88.42	71.6	5497	247.6	747.1	787	12.42	22	-11.3	-5.15
6261.1	91.07	72.2	5498	257.4	777	818.4	8.65	23	8.46	1.78
6293	93.97	74	5496	266.6	807.4	850.2	10.76	24	9.09	5.76
6324.2	92.02	73.7	5495	275.3	837.4	881.4	6.32	25	-6.24	-0.99
6355.6	93.3	74.7	5493	283.8	867.6	912.8	5.08	26	4.06	3.05
6387	90.67	72.2	5492	292.8	897.6	944.1	11.54	27	-8.36	-7.97
6419	91.52	73.8	5491	302.1	928.2	976.2	5.58	28	2.63	4.92
6450.5	91.38	73	5491	311.1	958.3	1008	2.49	29	-0.44	-2.45
6481.9	88.59	71.7	5491	320.7	988.3	1039	9.79	30	-8.87	-4.13
6513.1	89.63	72.1	5491	330.4	1018	1070	3.56	31	3.34	1.21
6544.3	90.77	73	5491	339.7	1048	1101	4.68	32	3.66	2.92
6576.8	92.56	73.7	5490	349	1079	1134	5.92	33	5.51	2.16
6608.3	90	72.2	5489	358.3	1109	1165	9.42	34	-8.11	-4.8
6639.6	86.51	70.1	5490	368.4	1139	1197	13.05	35	-11.17	-6.76
6670.5	87.58	70.8	5492	378.8	1168	1228	4.22	36	3.47	2.41
6701.8	90.17	72.2	5492	388.7	1197	1259	9.43	37	8.29	4.5
6733.3	89.93	72.1	5492	398.4	1227	1290	0.81	38	-0.75	-0.31
6764.7	91.65	72.2	5492	408	1257	1322	5.48	39	5.47	0.36
6796.1	88.86	70.9	5492	417.9	1287	1353	9.79	40	-8.88	-4.13
6827.7	87.62	69.9	5493	428.5	1317	1385	5.15	41	-3.92	-3.34
6859.6	88.99	72.1	5494	438.9	1347	1417	8.34	42	4.31	7.14
6891.3	89.93	71.8	5494	448.7	1377	1448	3.13	43	2.98	-0.97
6922.5	88.99	69.9	5494	458.9	1407	1479	6.74	44	-3.01	-6.03
6953.7	87.61	70.6	5495	469.5	1436	1511	4.86	45	-4.43	1.99
6984.8	87.78	70	5497	480	1465	1542	2.05	46	0.55	-1.98
7015.7	87.74	71.3	5498	490.2	1494	1573	4.38	47	-0.13	4.38
7047.2	88.15	70.9	5499	500.4	1524	1604	1.92	48	1.3	-1.41
7078.8	88.76	72.1	5500	510.4	1554	1636	4.47	49	1.91	4.05
7110.4	90.27	71.9	5500	520.2	1584	1667	4.84	50	4.79	-0.7
7152.5	90.81	72.1	5500	533.2	1624	1709	1.33	51	1.28	0.39
7183.5	91.51	72.6	5499	542.6	1654	1740	2.81	52	2.28	1.65
7215	92.59	73.1	5498	551.9	1684	1772	3.8	53	3.41	1.68
7246.1	91.08	73	5497	560.9	1713	1803	4.88	54	-4.86	-0.39

Survey Name: Survey from Data Set 1 relative to grid north

Well Name: RU 16-21

Date/Time: 4/28/2007 4:02

Magnetic Decl.: 11.08

Grid Correction: 0

North Reference: Grid

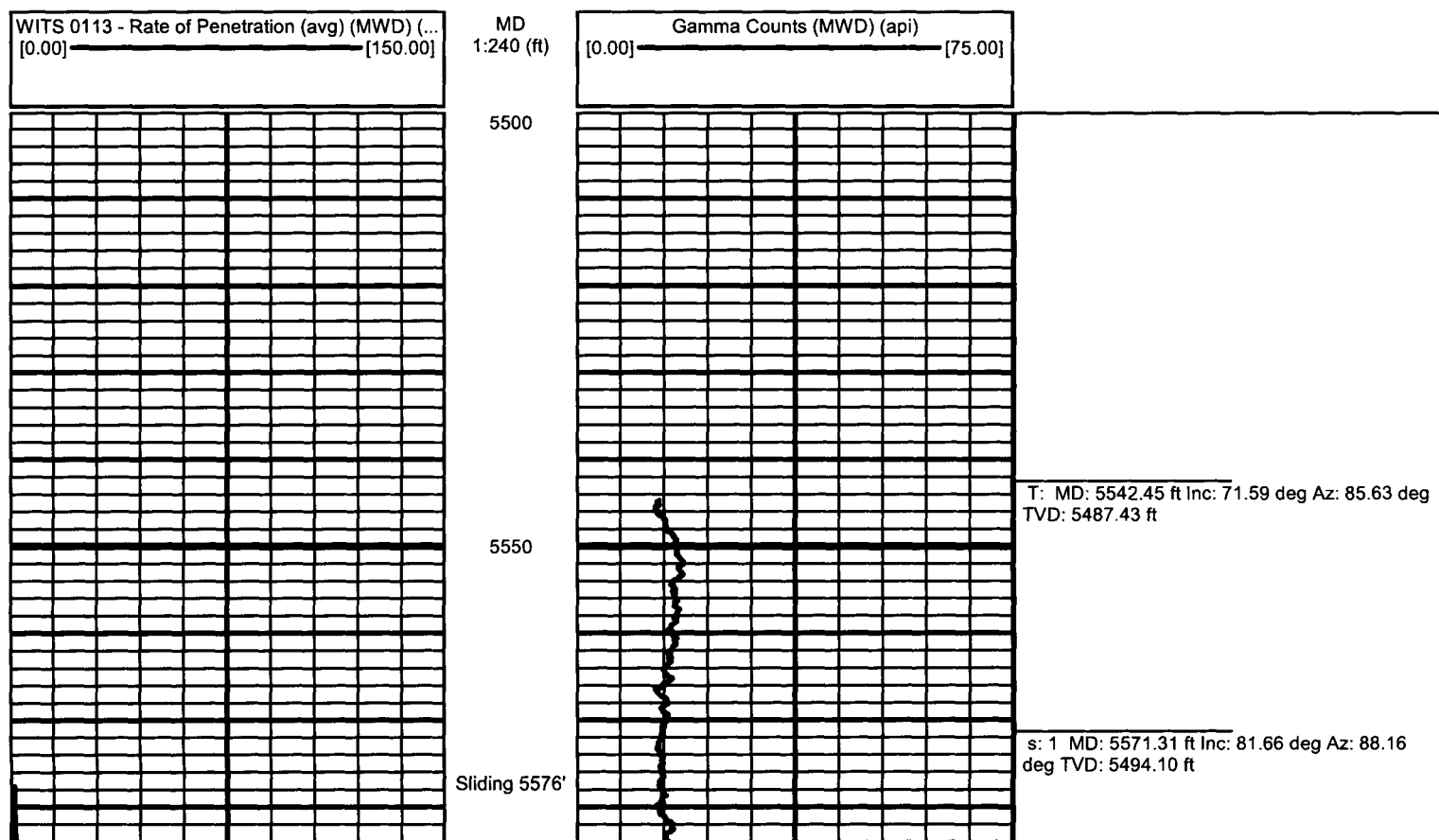
Section (VS) Ref.: 0.00N (ft), 0.00E (ft), 72.26Azim (deg)

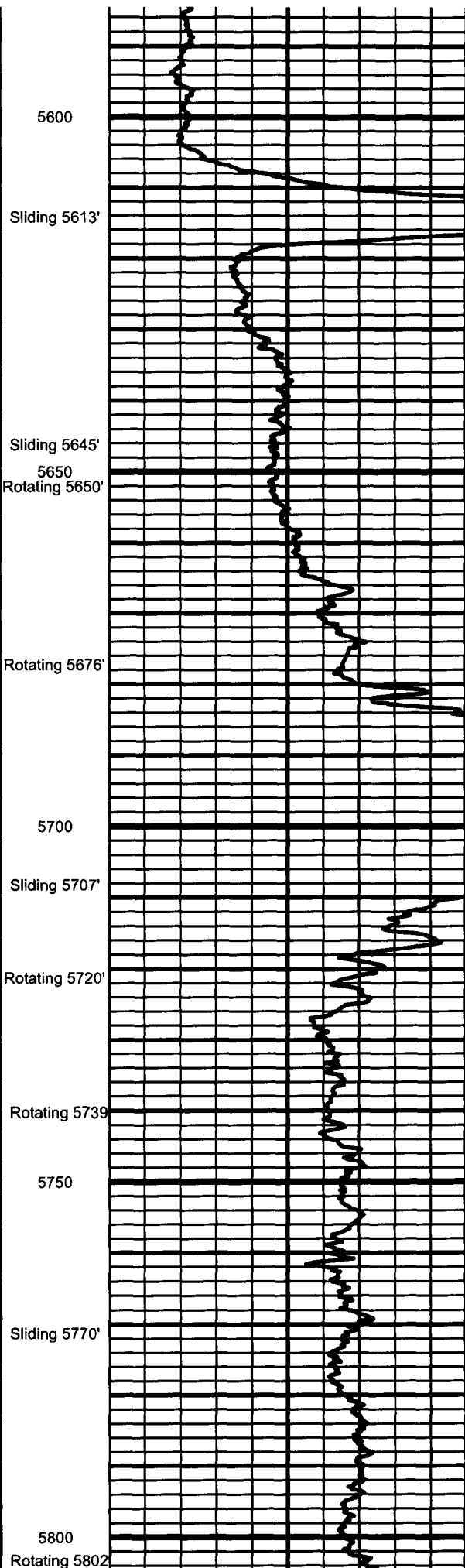
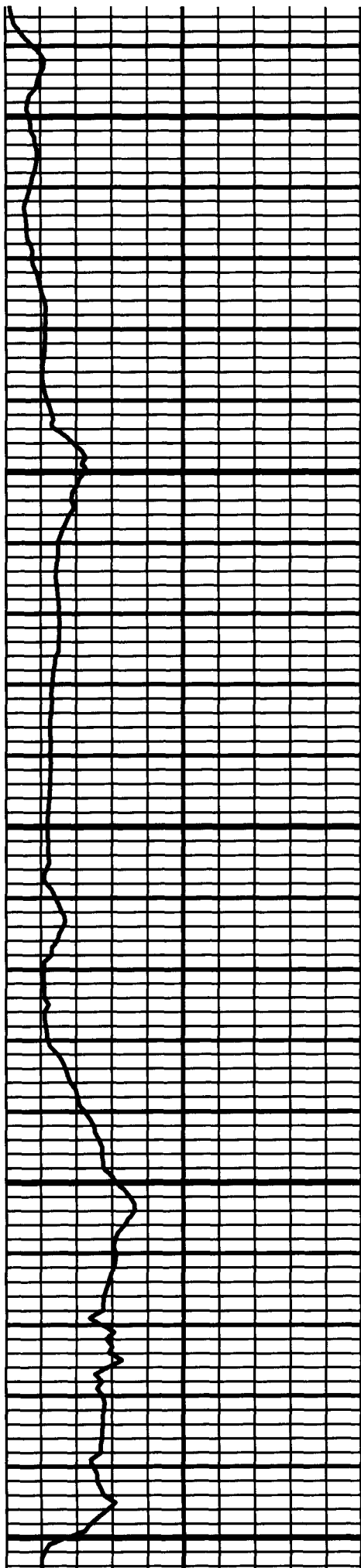
Calculation Method: Minimum Curvature

MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Stat	Build	Turn
ft	deg	deg	ft	ft	ft	ft	deg/100ft		deg/100ft	deg/100ft
7278.1	89.53	74.1	5497	570	1744	1835	5.84	55	-4.82	3.29
7309.8	91.04	74	5497	578.7	1775	1866	4.78	56	4.78	-0.05
7341.1	89.53	74.4	5496	587.3	1805	1898	4.95	57	-4.82	1.13
7372.8	90.78	74.8	5496	595.7	1835	1929	4.15	58	3.94	1.33
7404.2	90.91	75.4	5496	603.7	1866	1961	1.92	59	0.43	1.87
7435.8	91.17	74.1	5495	612	1896	1992	4.07	60	0.84	-3.98
7466.8	89.53	72.9	5495	620.8	1926	2023	6.55	61	-5.3	-3.85
7498.2	88.85	73.6	5496	629.9	1956	2055	2.99	62	-2.16	2.08
7529.8	89.46	72.6	5496	639.1	1986	2086	3.83	63	1.92	-3.32
7561.5	89.5	73.5	5496	648.3	2016	2118	3.09	64	0.1	3.09
7592.7	90.77	74	5496	657	2046	2149	4.41	65	4.1	1.63
7624.1	91.24	73.7	5496	665.8	2077	2181	1.93	66	1.49	-1.23
7655.5	91.31	73.7	5495	674.6	2107	2212	0.31	67	0.21	0.23
7687	91.96	74	5494	683.3	2137	2243	2.17	68	2.05	0.72
7718	91.78	72.7	5493	692.3	2167	2274	4.18	69	-0.57	-4.15
7749.4	91.08	73.6	5492	701.4	2197	2306	3.67	70	-2.24	2.91
7781.2	88.69	73.4	5492	710.4	2227	2338	7.53	71	-7.51	-0.55
7813.1	89.16	72.9	5493	719.7	2258	2370	2.2	72	1.48	-1.63
7844.2	90.91	73.4	5493	728.7	2287	2401	5.81	73	5.61	1.5
7875.2	92.22	72.6	5492	737.8	2317	2432	4.8	74	4.22	-2.28
7906.7	92.15	72.3	5491	747.2	2347	2463	1.15	75	-0.21	-1.13
7938.1	89.06	71.2	5491	757.1	2377	2494	10.5	76	-9.86	-3.61
7969.4	89.19	71.4	5491	767.1	2406	2526	0.98	77	0.43	0.88
8000.5	90.07	71.9	5491	776.9	2436	2557	3.21	78	2.8	1.55
8032.1	89.46	72.3	5491	786.6	2466	2588	2.36	79	-1.92	1.37
8063.3	89.29	71.7	5492	796.2	2496	2620	2.06	80	-0.54	-1.99
8094.3	89.6	71.5	5492	806	2525	2651	1.27	81	0.97	-0.82
8125.8	89.63	71.6	5492	816	2555	2682	0.36	82	0.1	0.34
8157.2	88.79	70.6	5493	826.2	2585	2714	4.04	83	-2.67	-3.02
8188.3	89.26	70.7	5493	836.5	2614	2745	1.52	84	1.51	0.15
8219	89.93	71.6	5493	846.4	2643	2775	3.69	85	2.19	2.97
8250.7	91.01	71.6	5493	856.4	2673	2807	3.38	86	3.38	0.01
8282.1	92.22	71.1	5492	866.5	2703	2838	4.18	87	3.85	-1.63
8313.1	90.81	70.9	5491	876.5	2732	2869	4.58	88	-4.56	-0.45
8344.4	90.61	70.9	5491	886.8	2762	2901	0.67	89	-0.64	-0.18
8375.4	91.41	70.9	5490	896.9	2791	2932	2.61	90	2.6	0.12
8406.8	91.51	70.4	5490	907.4	2821	2963	1.81	91	0.31	-1.78
8438.3	91.41	70.8	5489	917.8	2850	2995	1.27	92	-0.31	1.23
8469.7	91.68	70.8	5488	928.2	2880	3026	0.89	93	0.85	0.26
8501.1	91.92	70.6	5487	938.5	2910	3057	1.16	94	0.76	-0.87
8532.9	89.97	70.5	5487	949.1	2940	3089	6.15	95	-6.14	-0.28
8564.5	89.87	69.7	5487	959.9	2969	3121	2.54	96	-0.32	-2.52
8596.3	89.93	69.4	5487	971	2999	3152	0.99	97	0.21	-0.96
8627.8	89.87	69.2	5487	982.2	3029	3184	0.57	98	-0.21	-0.53
8659.3	89.93	68.4	5487	993.6	3058	3215	2.49	99	0.21	-2.48
8690.3	89.46	68.3	5487	1005	3087	3246	1.55	100	-1.52	-0.3
8722.1	88.99	69.2	5487	1017	3116	3278	3.05	101	-1.49	2.66
8753.8	89.56	69.2	5488	1028	3146	3310	1.81	102	1.81	-0.05
8785.1	89.19	68	5488	1039	3175	3341	3.8	103	-1.17	-3.61
8816	90.24	68.6	5488	1051	3204	3372	3.9	104	3.36	1.97
8847.2	91.61	68	5488	1062	3233	3403	4.86	105	4.42	-2.04
8878.5	91.04	67.7	5487	1074	3262	3434	2.01	106	-1.82	-0.83
8909.4	90.87	68.2	5486	1086	3290	3465	1.69	107	-0.54	1.6

[illegible]

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions as set out in our current price schedule.





s: 2 MD: 5602.44 ft Inc: 82.58 deg Az: 84.10
deg TVD: 5498.37 ft

s: 3 MD: 5634.15 ft Inc: 87.62 deg Az: 80.48
deg TVD: 5501.08 ft

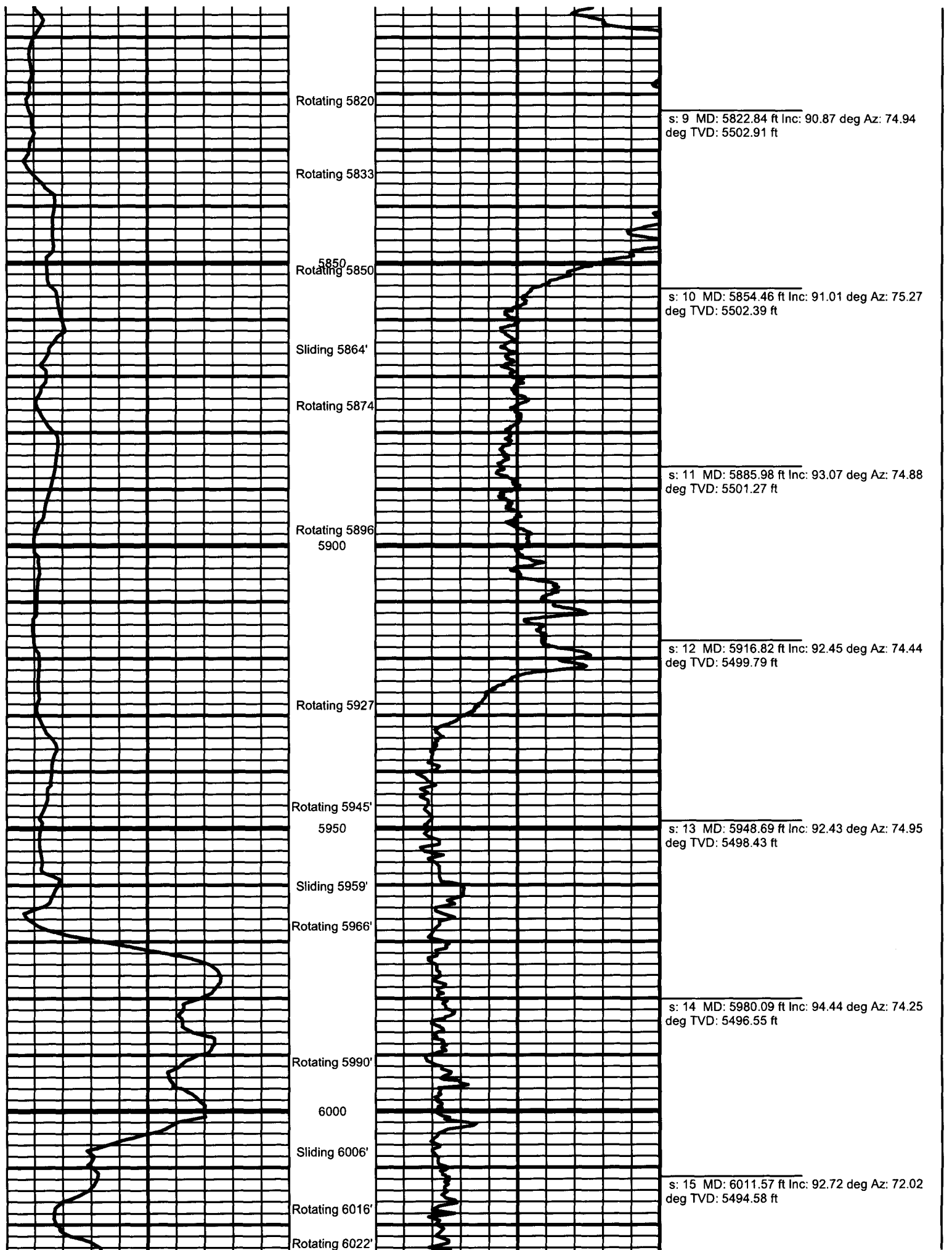
s: 4 MD: 5665.75 ft Inc: 89.06 deg Az: 79.90
deg TVD: 5502.00 ft

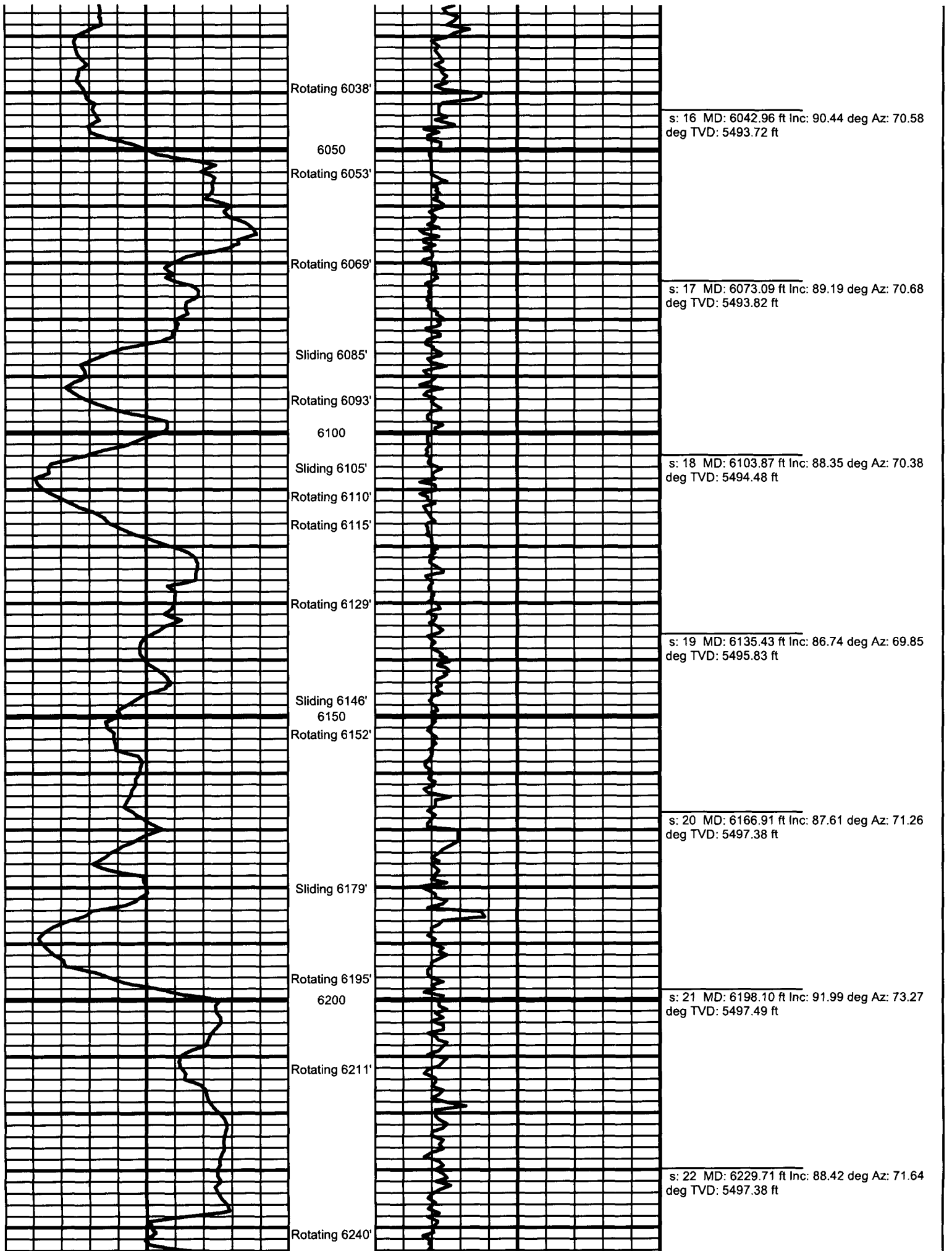
s: 5 MD: 5697.00 ft Inc: 89.43 deg Az: 79.20
deg TVD: 5502.41 ft

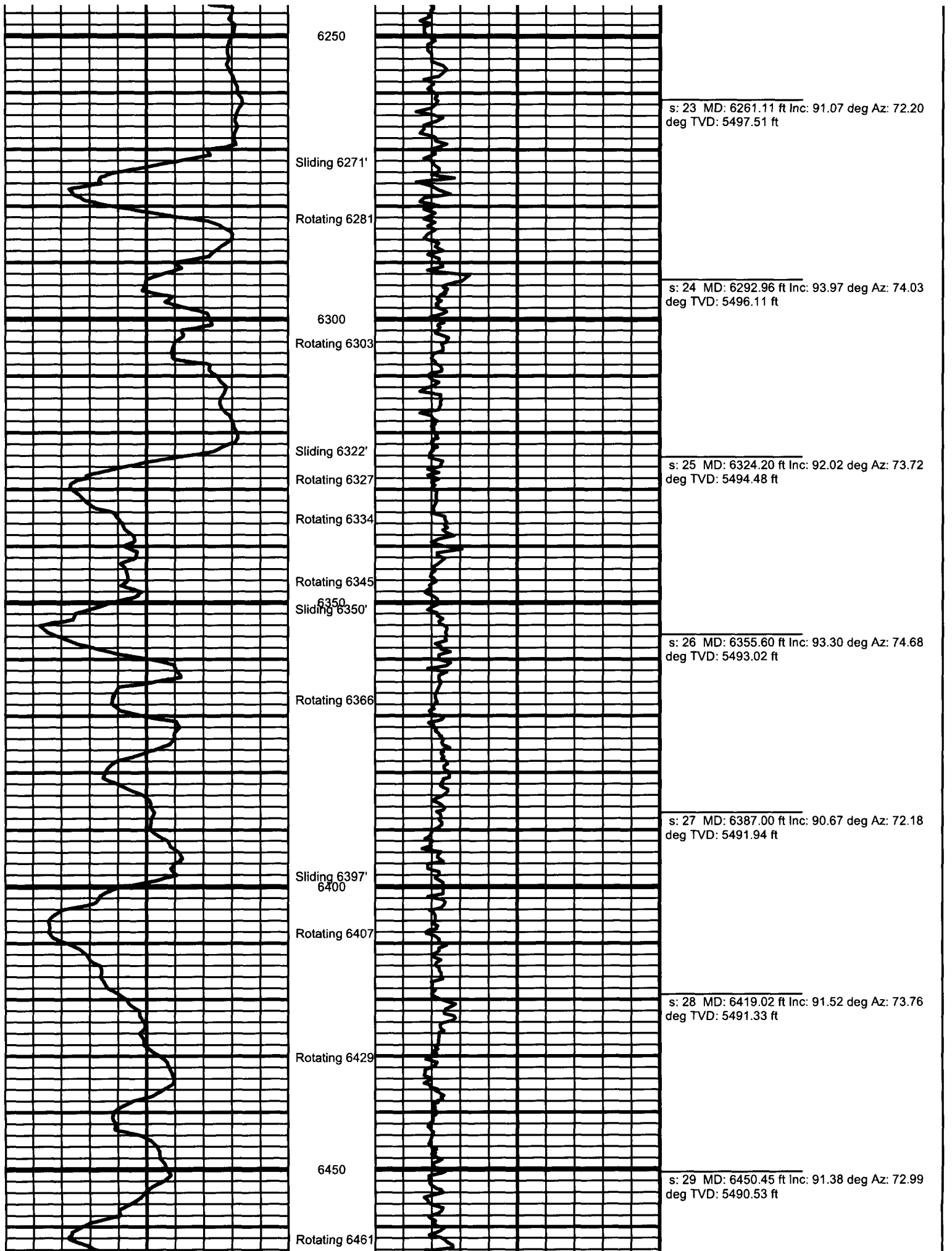
s: 6 MD: 5728.64 ft Inc: 87.95 deg Az: 77.69
deg TVD: 5503.13 ft

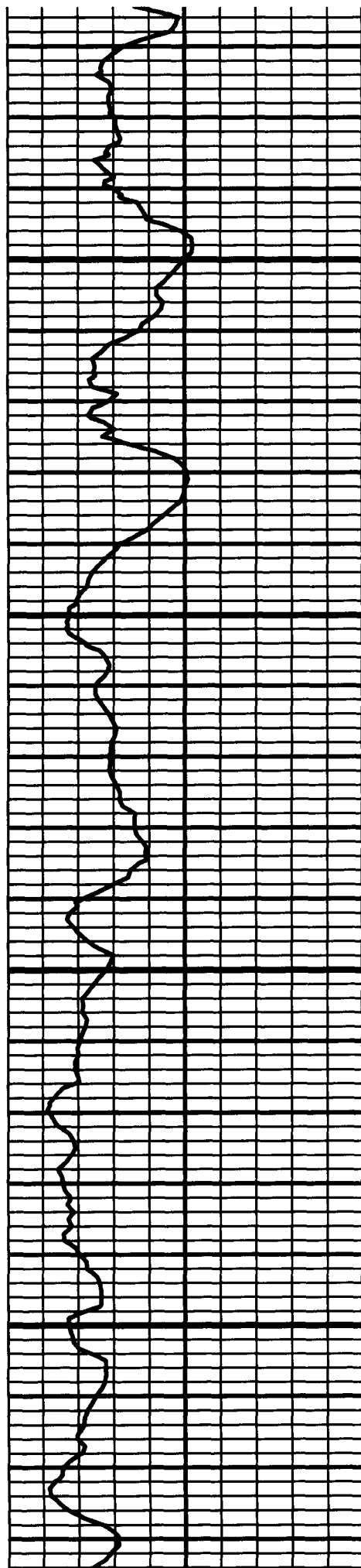
s: 7 MD: 5760.09 ft Inc: 88.09 deg Az: 76.90
deg TVD: 5504.22 ft

s: 8 MD: 5791.75 ft Inc: 92.92 deg Az: 75.77
deg TVD: 5503.94 ft









Sliding 6476'

6500

Rotating 6523'

6550

Rotating 6555'

Sliding 6587'

Rotating 6593'

6600

Sliding 6618'

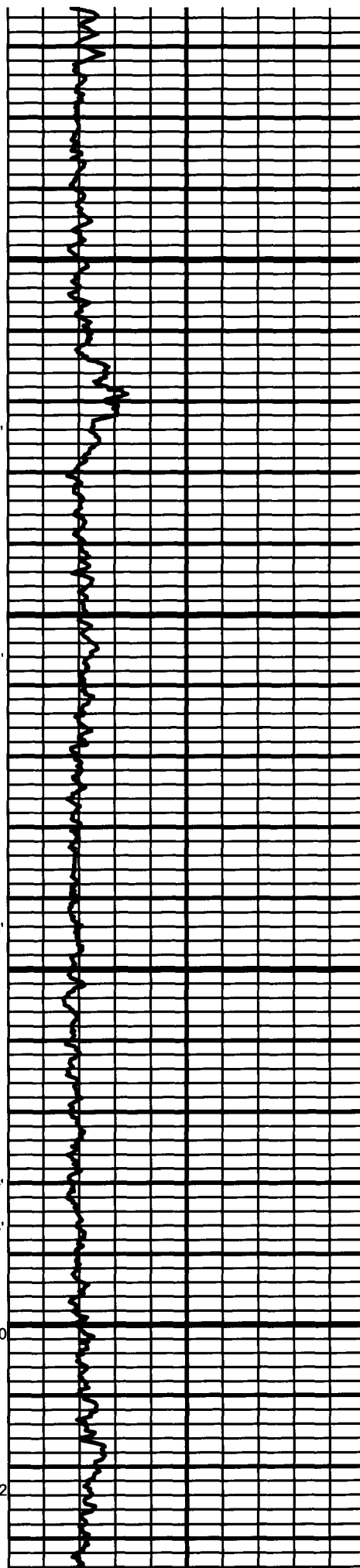
Rotating 6629'

Rotating 6635'

6650
Rotating 6650

Sliding 6667'

Rotating 6672'



s: 30 MD: 6481.91 ft Inc: 88.59 deg Az: 71.69
deg TVD: 5490.54 ft

s: 31 MD: 6513.12 ft Inc: 89.63 deg Az: 72.07
deg TVD: 5491.03 ft

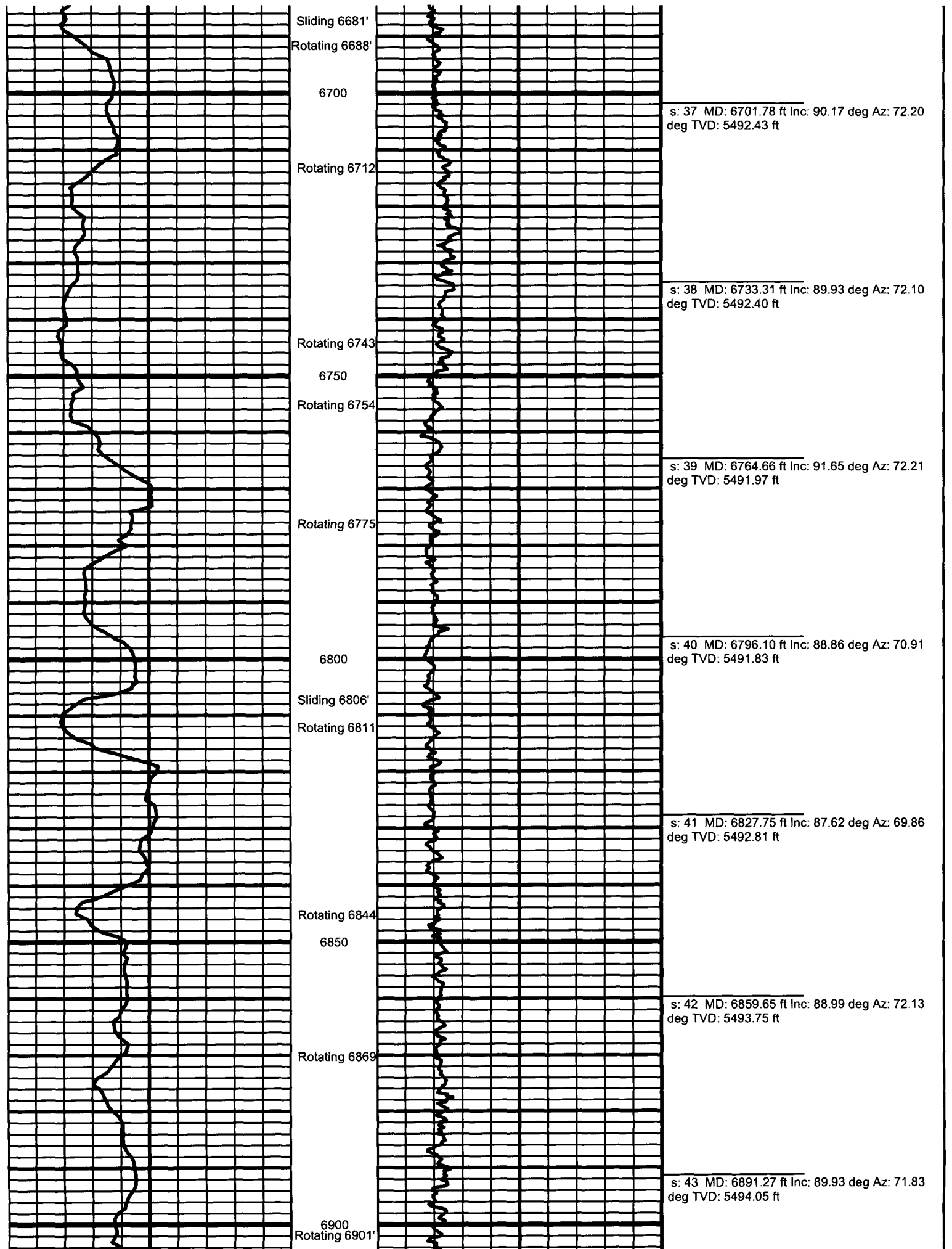
s: 32 MD: 6544.32 ft Inc: 90.77 deg Az: 72.98
deg TVD: 5490.92 ft

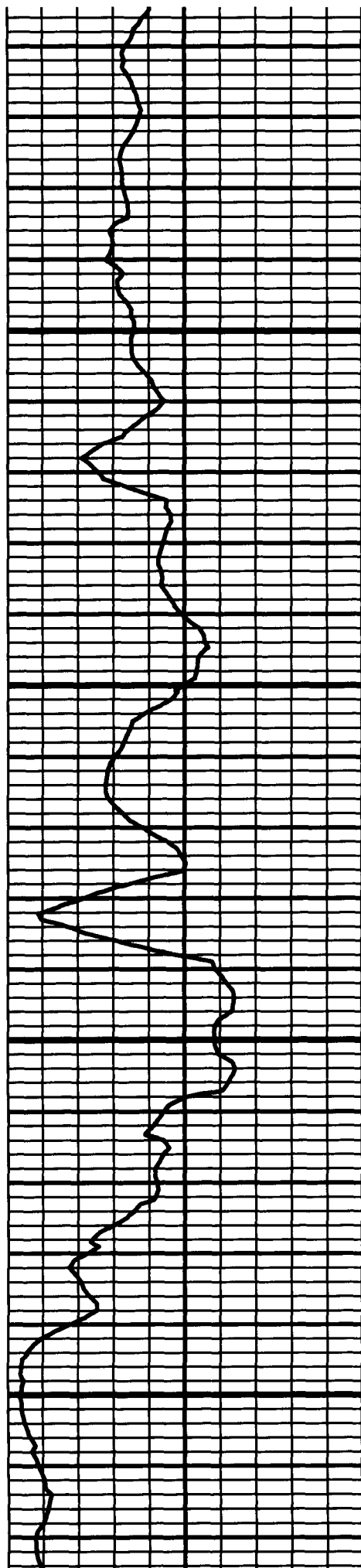
s: 33 MD: 6576.75 ft Inc: 92.56 deg Az: 73.68
deg TVD: 5489.97 ft

s: 34 MD: 6608.34 ft Inc: 90.00 deg Az: 72.16
deg TVD: 5489.27 ft

s: 35 MD: 6639.62 ft Inc: 86.51 deg Az: 70.05
deg TVD: 5490.22 ft

s: 36 MD: 6670.51 ft Inc: 87.58 deg Az: 70.79
deg TVD: 5491.81 ft





Rotating 6933

6950

Sliding 6964'

Rotating 6970

Rotating 6995

7000

Sliding 7026'

Rotating 7031'

7050

Rotating 7057'

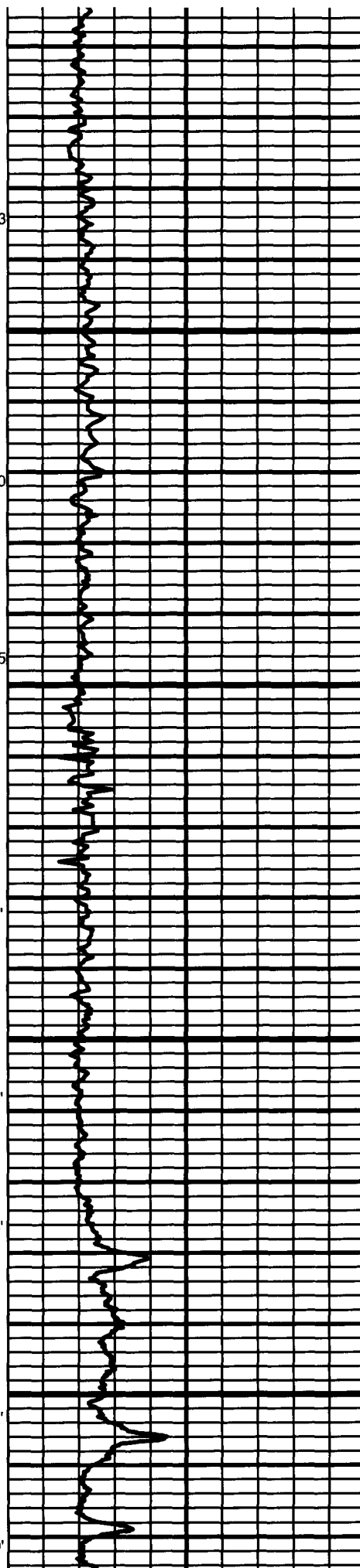
Rotating 7075'

Sliding 7090'

7100

Rotating 7102'

Rotating 7120'



s: 44 MD: 6922.53 ft Inc: 88.99 deg Az: 69.94
deg TVD: 5494.34 ft

s: 45 MD: 6953.71 ft Inc: 87.61 deg Az: 70.57
deg TVD: 5495.27 ft

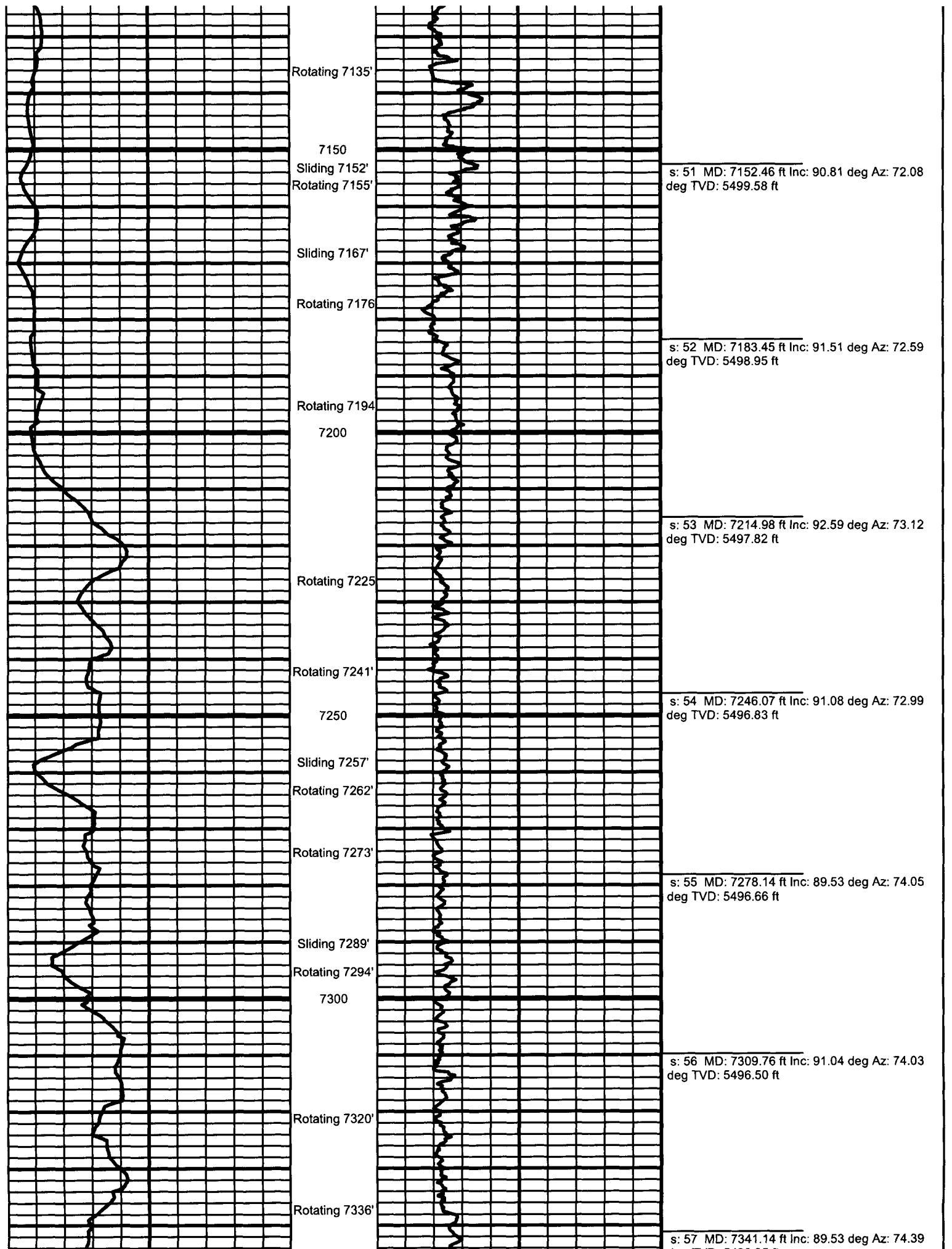
s: 46 MD: 6984.81 ft Inc: 87.78 deg Az: 69.95
deg TVD: 5496.51 ft

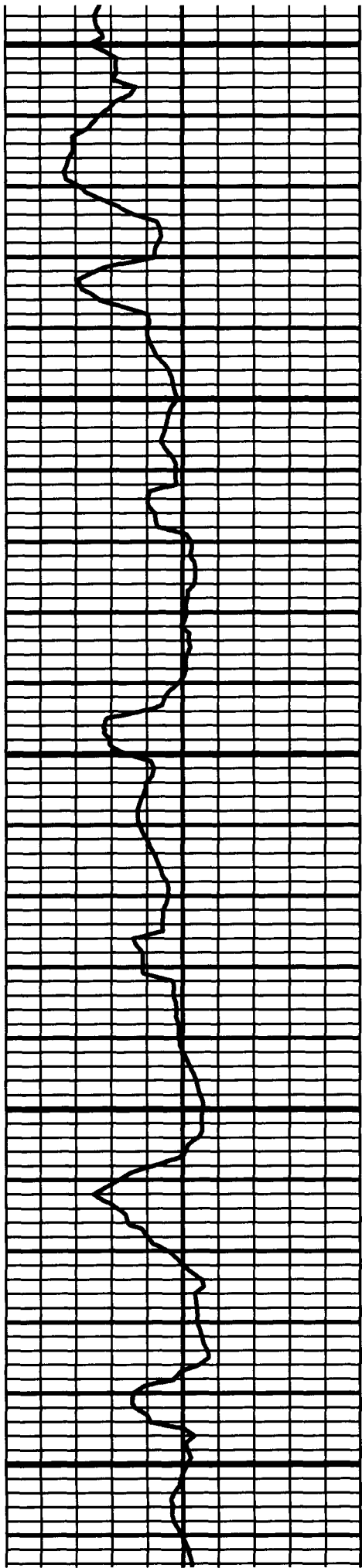
s: 47 MD: 7015.69 ft Inc: 87.74 deg Az: 71.30
deg TVD: 5497.72 ft

s: 48 MD: 7047.22 ft Inc: 88.15 deg Az: 70.86
deg TVD: 5498.85 ft

s: 49 MD: 7078.79 ft Inc: 88.76 deg Az: 72.14
deg TVD: 5499.70 ft

s: 50 MD: 7110.37 ft Inc: 90.27 deg Az: 71.91
deg TVD: 5499.97 ft





7350
Rotating 7351'

Sliding 7365'

Rotating 7370'

Rotating 7383'

7400

Rotating 7414

Rotating 7446
7450

Rotating 7477

7500

Sliding 7508'

Rotating 7513

Rotating 7540

7550

deg TVD: 5496.35 ft

s: 58 MD: 7372.80 ft Inc: 90.78 deg Az: 74.81
deg TVD: 5496.26 ft

s: 59 MD: 7404.20 ft Inc: 90.91 deg Az: 75.39
deg TVD: 5495.80 ft

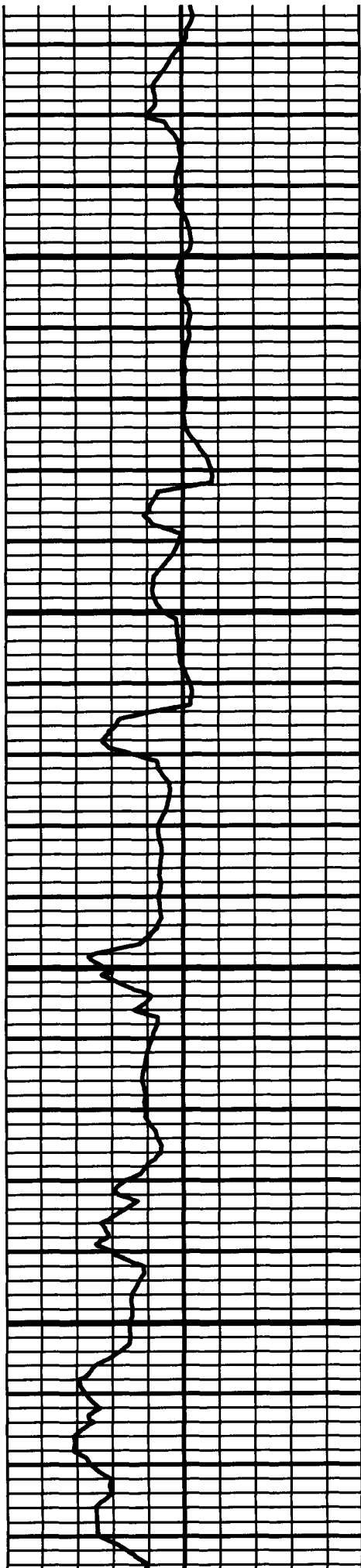
s: 60 MD: 7435.79 ft Inc: 91.17 deg Az: 74.14
deg TVD: 5495.23 ft

s: 61 MD: 7466.81 ft Inc: 89.53 deg Az: 72.94
deg TVD: 5495.04 ft

s: 62 MD: 7498.17 ft Inc: 88.85 deg Az: 73.59
deg TVD: 5495.48 ft

s: 63 MD: 7529.83 ft Inc: 89.46 deg Az: 72.55
deg TVD: 5495.94 ft

s: 64 MD: 7561.54 ft Inc: 89.50 deg Az: 73.52



Sliding 7571'

7600

Rotating 7603

Rotating 7634

7650

Rotating 7666

Sliding 7697'
7700

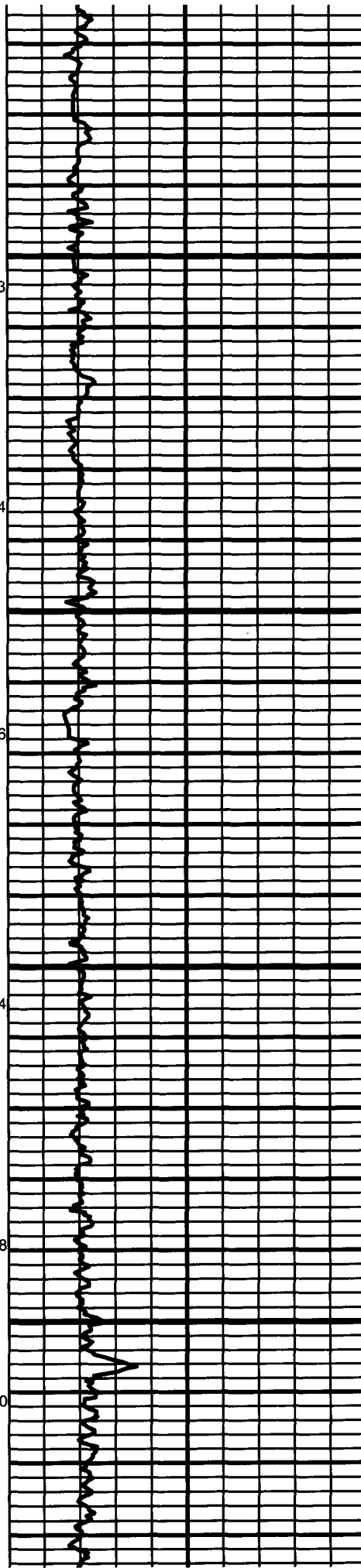
Rotating 7704

Sliding 7728'

Rotating 7738

7750

Rotating 7760



deg TVD: 5496.23 ft

s: 65 MD: 7592.75 ft Inc: 90.77 deg Az: 74.03
deg TVD: 5496.16 ft

s: 66 MD: 7624.12 ft Inc: 91.24 deg Az: 73.65
deg TVD: 5495.60 ft

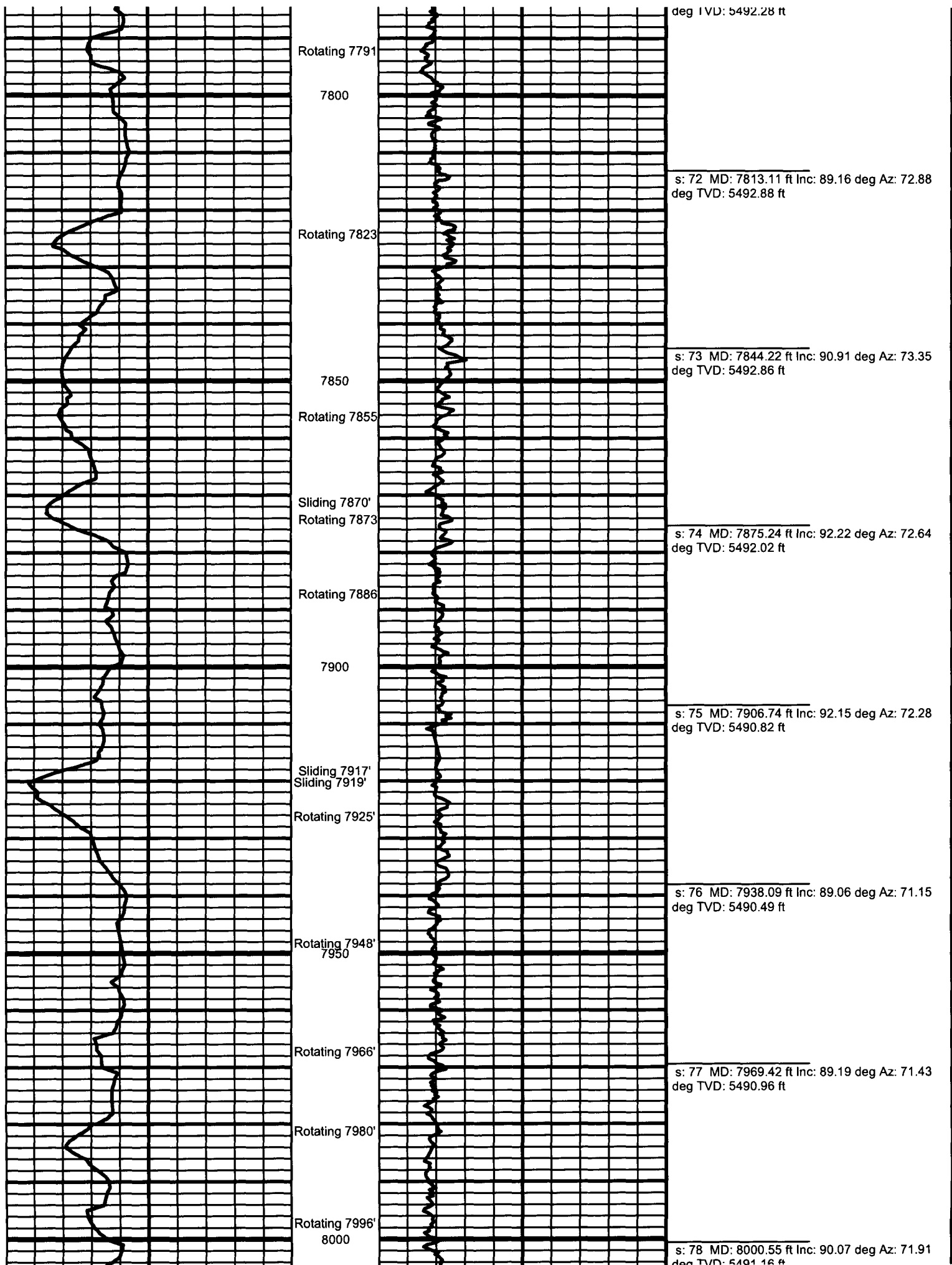
s: 67 MD: 7655.51 ft Inc: 91.31 deg Az: 73.72
deg TVD: 5494.91 ft

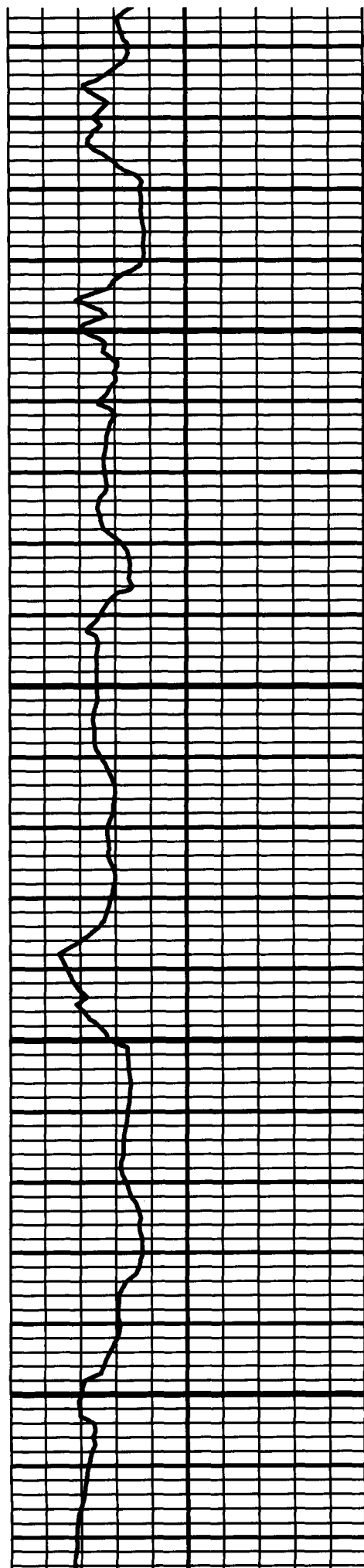
s: 68 MD: 7686.97 ft Inc: 91.96 deg Az: 73.95
deg TVD: 5494.01 ft

s: 69 MD: 7718.00 ft Inc: 91.78 deg Az: 72.66
deg TVD: 5493.00 ft

s: 70 MD: 7749.43 ft Inc: 91.08 deg Az: 73.58
deg TVD: 5492.22 ft

s: 71 MD: 7781.22 ft Inc: 88.69 deg Az: 73.40
deg TVD: 5491.22 ft





Rotating 8012'

Sliding 8016'

Rotating 8022

Rotating 8042

8050
Rotating 8051

Rotating 8074

8100

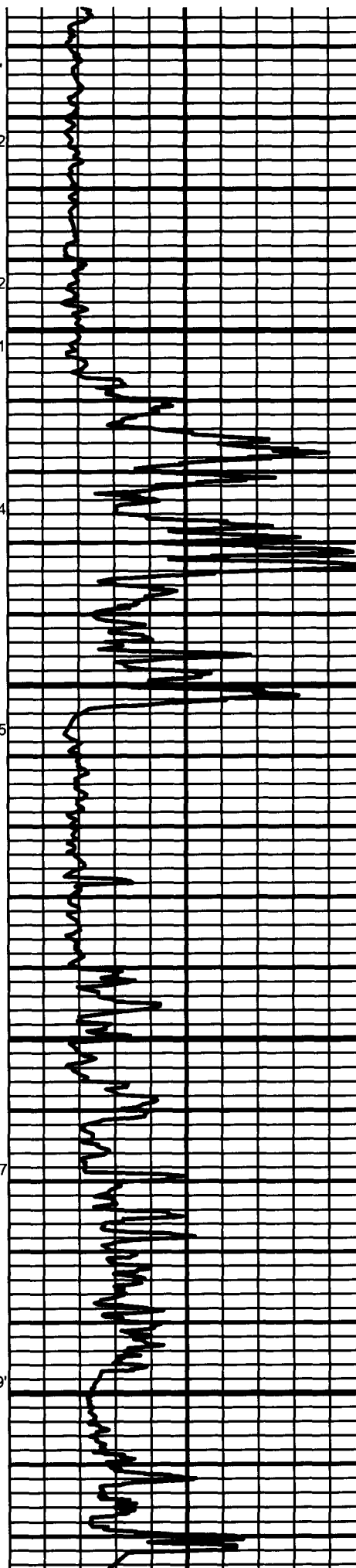
Rotating 8105

Sliding 8136'

8150

Rotating 8167

Rotating 8199'
8200



s: 79 MD: 8032.09 ft Inc: 89.46 deg Az: 72.34
deg TVD: 5491.29 ft

s: 80 MD: 8063.27 ft Inc: 89.29 deg Az: 71.72
deg TVD: 5491.63 ft

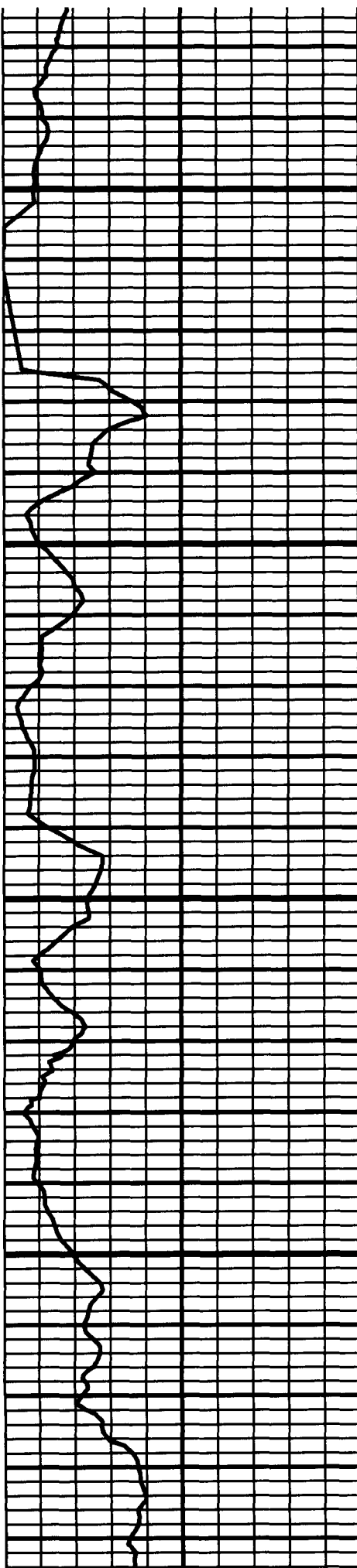
s: 81 MD: 8094.34 ft Inc: 89.60 deg Az: 71.47
deg TVD: 5491.93 ft

s: 82 MD: 8125.80 ft Inc: 89.63 deg Az: 71.57
deg TVD: 5492.14 ft

s: 83 MD: 8157.18 ft Inc: 88.79 deg Az: 70.63
deg TVD: 5492.58 ft

s: 84 MD: 8188.28 ft Inc: 89.26 deg Az: 70.67
deg TVD: 5493.11 ft

s: 85 MD: 8218.96 ft Inc: 89.93 deg Az: 71.58
deg TVD: 5493.32 ft



Sliding 8230'

Rotating 8237

8250

Rotating 8260

Rotating 8278

Rotating 8292

8300

Sliding 8308'

Rotating 8314

Rotating 8324'

Rotating 8339'

8350

Rotating 8355'

Sliding 8372'

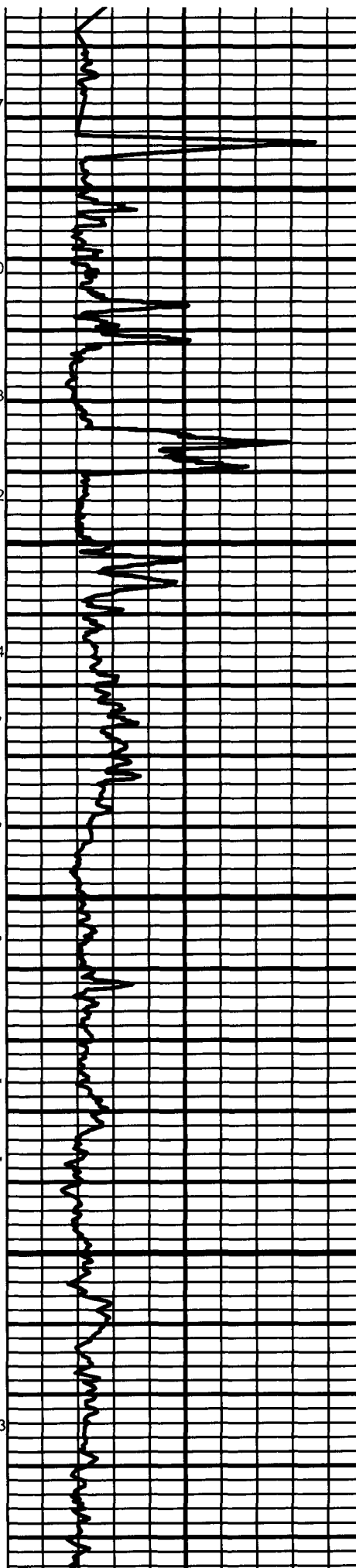
Rotating 8375'

Rotating 8386'

8400

Sliding 8417'

Rotating 8423



s: 86 MD: 8250.74 ft Inc: 91.01 deg Az: 71.59
deg TVD: 5493.06 ft

s: 87 MD: 8282.15 ft Inc: 92.22 deg Az: 71.07
deg TVD: 5492.18 ft

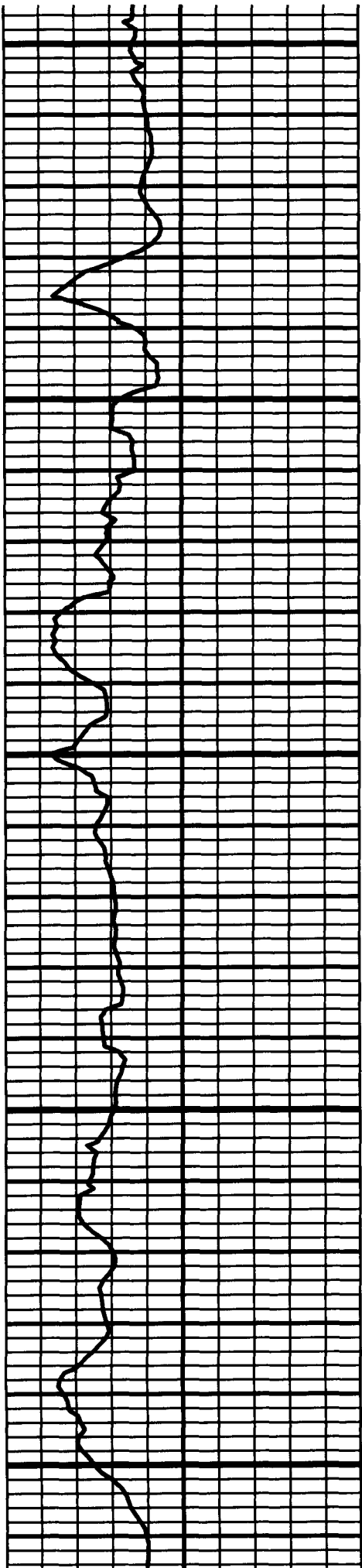
s: 88 MD: 8313.06 ft Inc: 90.81 deg Az: 70.93
deg TVD: 5491.36 ft

s: 89 MD: 8344.38 ft Inc: 90.61 deg Az: 70.88
deg TVD: 5490.98 ft

s: 90 MD: 8375.39 ft Inc: 91.41 deg Az: 70.92
deg TVD: 5490.43 ft

s: 91 MD: 8406.84 ft Inc: 91.51 deg Az: 70.36
deg TVD: 5489.63 ft

s: 92 MD: 8438.32 ft Inc: 91.41 deg Az: 70.75
deg TVD: 5488.83 ft



Rotating 8448

Sliding 8480'

Rotating 8485

8500

Rotating 8511

Sliding 8520'

Rotating 8530

Sliding 8543'

8550

Rotating 8552

Rotating 8574

8600

Rotating 8606

Rotating 8638

8650

s: 93 MD: 8469.72 ft Inc: 91.68 deg Az: 70.83
deg TVD: 5487.98 ft

s: 94 MD: 8501.11 ft Inc: 91.92 deg Az: 70.55
deg TVD: 5486.99 ft

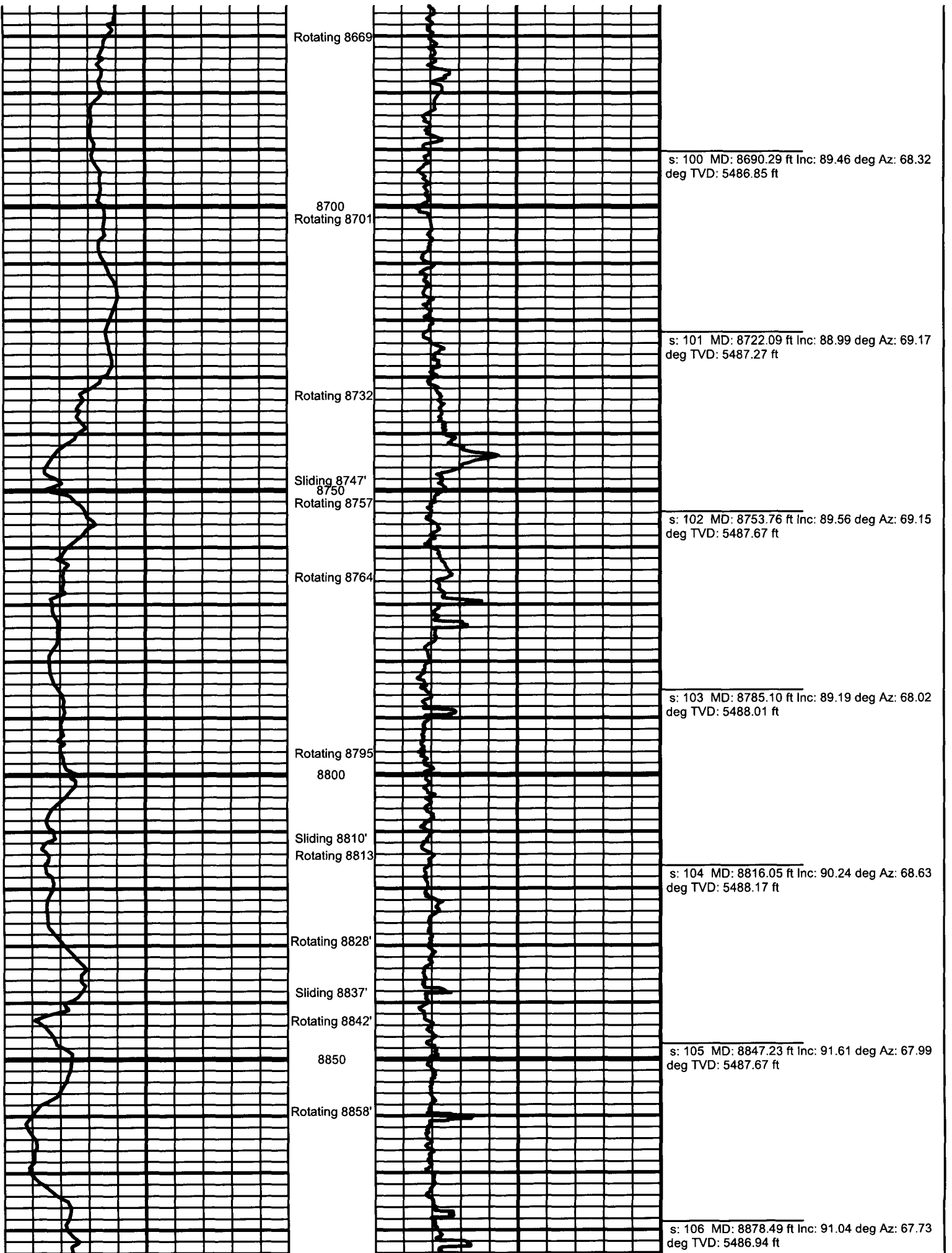
s: 95 MD: 8532.90 ft Inc: 89.97 deg Az: 70.47
deg TVD: 5486.47 ft

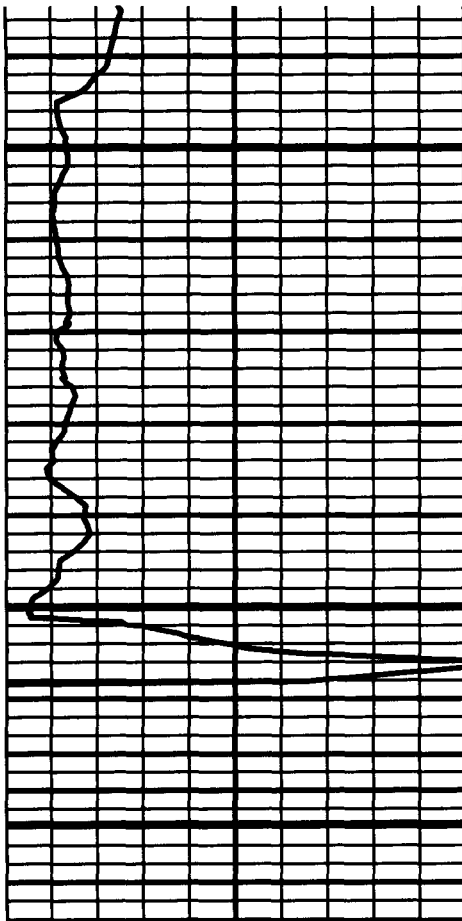
s: 96 MD: 8564.50 ft Inc: 89.87 deg Az: 69.67
deg TVD: 5486.52 ft

s: 97 MD: 8596.31 ft Inc: 89.93 deg Az: 69.36
deg TVD: 5486.57 ft

s: 98 MD: 8627.77 ft Inc: 89.87 deg Az: 69.20
deg TVD: 5486.63 ft

s: 99 MD: 8659.35 ft Inc: 89.93 deg Az: 68.41
deg TVD: 5486.68 ft





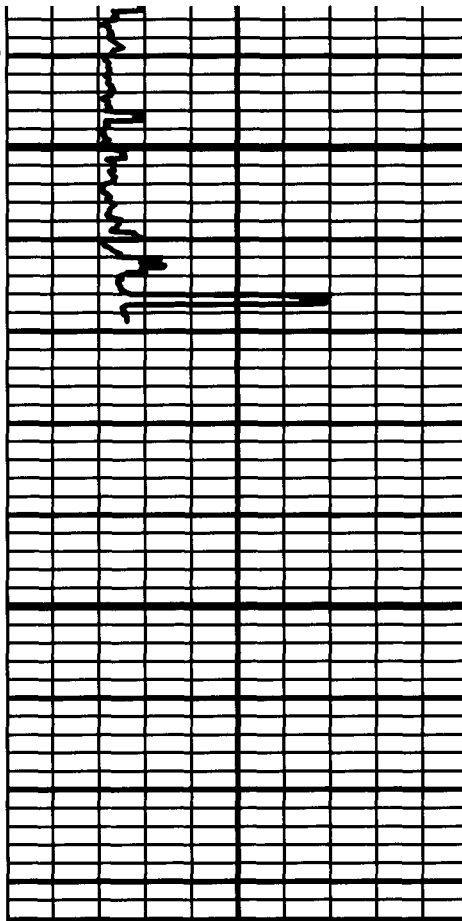
Rotating 8889'

8900

8950

WITS 0113 - Rate of Penetration (avg) (MWD) (...)
[0.00] ————— [150.00]

MD
1:240 (ft)



s: 107 MD: 8909.40 ft Inc: 90.87 deg Az: 68.23
deg TVD: 5486.43 ft

Gamma Counts (MWD) (api)
[0.00] ————— [75.00]



Scientific Drilling

GAMMA RAY

5" = 100'

FEET MD

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-355
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES		7. UNIT or CA AGREEMENT NAME: RATHERFORD
3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535		8. WELL NAME and NUMBER: NAVAJO A-12 (RATHERFORD 16W21)
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0660 FNL 1880 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 16 Township: 41.0S Range: 24.0E Meridian: S		9. API NUMBER: 43037164140000
PHONE NUMBER: 303 534-4600 Ext		9. FIELD and POOL or WILDCAT: GREATER ANETH
COUNTY: SAN JUAN		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <div style="border: 1px solid black; padding: 2px; display: inline-block;">4/1/2008</div> <input type="checkbox"/> SPUD REPORT Date of Spud:
<input type="checkbox"/> DRILLING REPORT Report Date:	<input checked="" type="checkbox"/> OTHER			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry to correct the well record, the above well was converted to injection in 04/2008. The history is as follows; Well was an injector unit 03/2007, Converted to producer from 7/2007 - 3/2008, the converted back to an injector in 4/2008.

**Accepted by the
Utah Division of
Oil, Gas and Mining**

FOR RECORD ONLY

June 28, 2016

NAME (PLEASE PRINT) Erin Joseph	PHONE NUMBER 303 573-4886	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 6/8/2016	